



Haier Air Conditioning



ADDRESS

No.1 Haier Road, Hi-tech Zone, Qingdao 266101 P.R.China

CONTACTS

Tel: +86-532-8893-6942

Website: www.haier.com

! The specifications, designs and information in this brochure are subject to the actual products. Haier reserves the right to make change without any notice.

MCE 2014

18-21 March 2014

Welcome to our booth
located at
Stand L36 K49
Hall 15
Fair Milano RHO.

Haier Air Conditioning

2014 Residential General Catalogue

EU R410a

Version 2.0

Haier

Inspired Living



EU R410a

Haier Air Conditioning



2014 Residential
General Catalogue

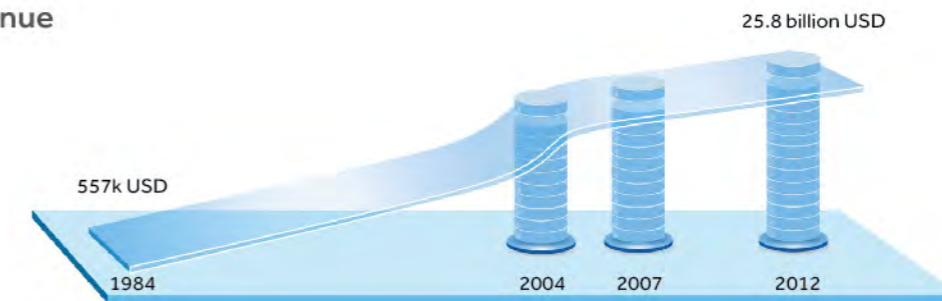


Haier Global Position

Haier, with its global revenue reaching 25.8 billion USD, is No. 1 global home appliance brand with 8.6% retail volume share in 2012.

(Source: Euromonitor International Limited, retail volume sales in units based on 2012 data.)

Revenue



Haier Global Network

Haier has built up its infrastructures globally to meet the customers' quickly evolving demands, including R&D centers, production facilities, trading companies and sales networks etc.

Haier's five R&D centers around the world have forged strategic partnerships with first-class suppliers, research institutions, and prestigious universities to create an innovative ecosystem composed of internal and external scientists and engineers connected by virtual and physical networks.



Haier Brand Story

The Internet era is a diverse and unconventional time, where "one size fits all" products and solutions simply aren't enough. Customers want to be treated as individuals and respected for who they are.

Everyone wants their unique lifestyle acknowledged. That is why Haier listens closely to you in order to gain a genuine understanding of what is going on in your life and what is on your mind. So each of you can get the smart home experience you deserve: be it simple, sophisticated, organized or enjoyable.

As a worldwide industry leader, Haier innovates beyond products and solutions and turns the organization into a wholly connected platform. In doing so, internal and external resources are connected quickly and easily. We believe only by doing so, we can best meet our consumers' expectations in this rapidly evolving world.

Be part of the Haier Network. Create new possibilities.



Haier Air Conditioning

Milestones

- Haier AC was ranked **No.5** in Italy by market share in 2012.
- Haier B2C website in Italy was awarded **"INTERACTIVE KEY AWARD 2013"**
- Haier AC entering Winter Olympics in Sochi Russia in 2013
- **"The Best Choice"** & **"Top 1 for comfort and energy-saving"** in USA
- **NO.1** in Pakistan for 5 consecutive years by market share.



Haier Air Conditioning in Europe

European presence in 30 countries



 Haier Local Offices
 Haier Products Available

Smart solution

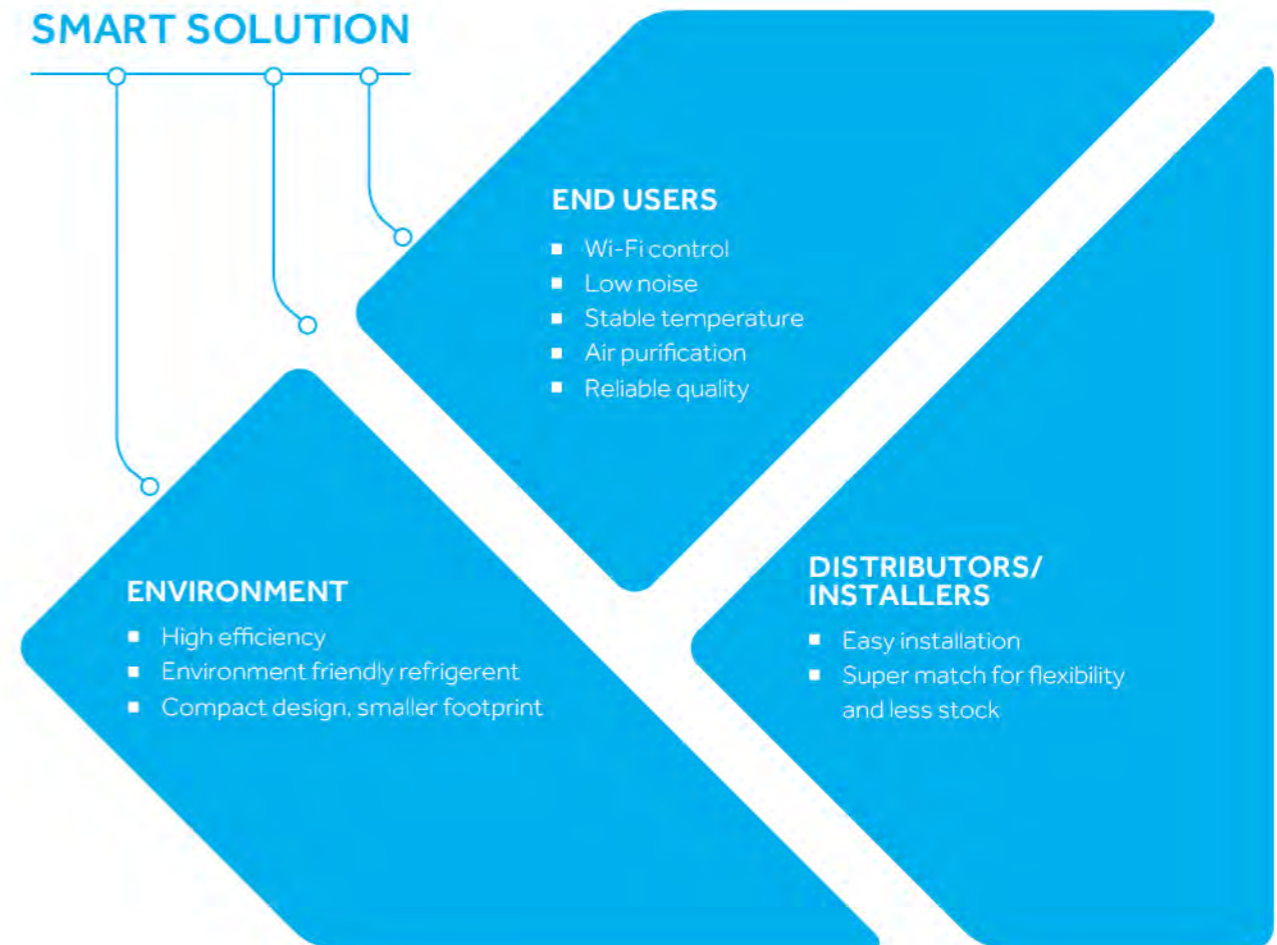
Haier AC commits to provide smart solutions for a comfortable life for global customers based on deep understanding of the more and more fragmented existing and potential demands.

Its SUPER MATCH product line makes 100% free match between different types of indoor and outdoor units possible, covering mono and multi system, representing a friendly solution for distributors and installers.

The SUPER MATCH MAXI line will be an effective and economic solution for light commercial environments like meeting hall etc.

The Wi-Fi control function, which is to be introduced in late 2014 will provide utmost convenience to end users. Whenever and wherever you are, your air conditioner is always under your control with Wi-Fi control function.

SMART SOLUTION



Haier Air Conditioning in Europe



Seasonal performance, Haier commits to a landmark change!

With European Legislation looking for drastically cutting down energy consumption, improving energy efficiency of commercial and residential buildings to meet the targets 20/20/20, industry is looking for more appropriate ways to evaluate efficiency. Thus, the Eco-Design Directive (ErP), aiming at reducing the environmental impact of products in the EU, has introduced the new method for performance specifications, that is seasonal efficiency. In 2014, the standard will be further leveled up.

Haier, being one of the leaders in the industry, has been pursuing designs to optimize seasonal efficiency value, to level up cooling and heating performance of the products and lower the impact on the environment. Several new lines of products will be introduced to the market for better design and performance.

European action plan 20/20/20



Nominal VS Seasonal efficiency

<p>Temperature</p> <p>Nominal: Temperature condition: 35°C for cooling 7°C for heating, does not often occur in reality</p> <p>Seasonal: Several ration temperatures for cooling and heating, reflecting actual performance over an entire season</p>	<p>Capacity</p> <p>Nominal: Does not reflect partial capacity, benefits of inverter technology not visible</p> <p>Seasonal: Integrates operation at partial instead of full capacity, benefits of inverter technology are shown</p>	<p>Auxiliary modes</p> <p>Nominal: Does not take auxiliary power modes into account</p> <p>Seasonal: Includes consumption auxiliary modes, Thermostat off, Standby mode, Off mode, Crankcase heater</p>	<p>Efficiency</p> <p>Nominal: Efficiency give an indication on how efficient an air conditioner operates at a nominal condition</p> <p>Seasonal: Efficiency gives an indication on how efficient an air conditioner operates over and entire cooling or heating season</p>
--	--	--	---

Haier innovates for seasonal efficiency

In order to meet the upgraded requirements of energy efficiency in EU, Haier has made considerable investment in R&D to provide the advanced solutions.

In 2014, Haier will launch more energy efficiency solutions covering various efficiency levels from A+++ to A as well as new designs including CRYSTAL and NEBULA, equipped with the Wi-Fi control function for residential use. Together with the current SUPER MATCH range, Haier makes new solution SUPER MATCH MAXI which uses the current indoor and outdoor combined with branch box to provide easier and more comfortable solution for light commercial application.

As to VRF solution, Haier will launch the new generation of side discharge single module VRF and the improved BMS regulation system which will definitely strengthen our activity in the professional market.

All these ranges are in compliance with 2014 ErP directive, even far better than the minimum legislation requirements. With these full range solutions, we are committed to provide the professional and smart solution to our professional customers and users.

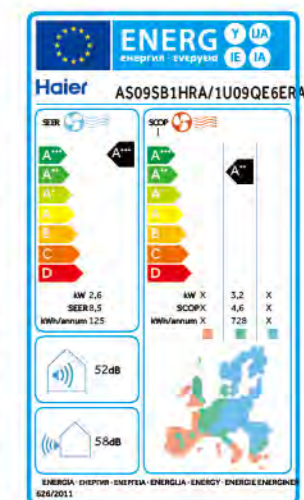


The ErP directive(eco-design)

Compared with year 2013, the minimum requirements for energy class in 2014 are more strict, SEER upgrade from D to B (below 6KW) or C(above 6KW), while SCOP is the same energy class A but the value upgrade from 3.4 to 3.8.

For detailed information about ErP, please visit our page <http://www.haier.com/ecodesign>

SEER	SCOP
A+++ SEER ≥ 8.50	A+++ SCOP ≥ 5.10
A++ 6.10 ≤ SEER < 8.50	A++ 4.60 ≤ SCOP < 5.10
A+ 5.60 ≤ SEER < 6.10	A+ 4.00 ≤ SCOP < 4.60
A 5.10 ≤ SEER < 5.60	A 3.40 ≤ SCOP < 4.00
B 4.60 ≤ SEER < 5.10	B 3.10 ≤ SCOP < 3.40
C 4.10 ≤ SEER < 4.60	C 2.80 ≤ SCOP < 3.10
D 3.60 ≤ SEER < 4.10	D 2.50 ≤ SCOP < 2.80
E 3.10 ≤ SEER < 3.60	E 2.20 ≤ SCOP < 2.50
F 2.60 ≤ SEER < 3.10	F 1.90 ≤ SCOP < 2.20
G SEER < 2.60	G SCOP < 1.90



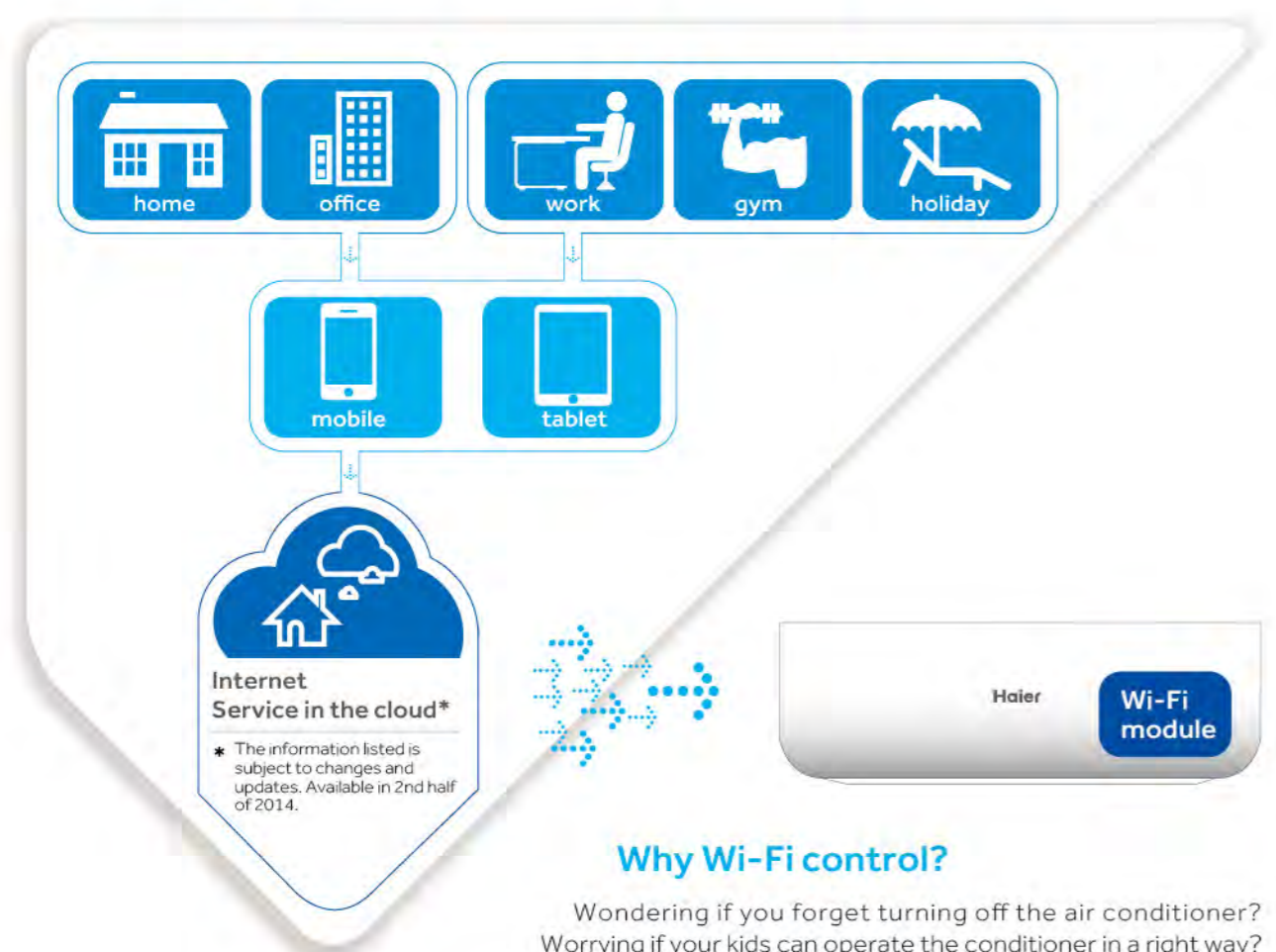


Smart Wi-Fi

Control your climate easily from wherever

Smart

Wi-Fi control



Why Wi-Fi control?

Wondering if you forget turning off the air conditioner?
 Worrying if your kids can operate the conditioner in a right way?
 Haier Wi-Fi Control technology provides you with the convenience of controlling your air conditioning system through Wi-Fi module via Android or iOS smart phones and tablets which can connect internet.

How to make Wi-Fi control available?

Haier Wi-Fi control function is easily available with Haier Smart AC APP, Haier Wi-Fi module, router wifi and smart terminals like smart phone etc.

To start the Wi Fi control function, it will be the first step to download Haier Smart AC APP from Apple' s AppStore and Android' s Google Play, and then start the APP and make registration. After successful registration, you will be invited to add your air conditioners in the control list. For easy operation later, it is possible also to rename the air conditioners or group the air conditioners.

With all the above operation completed, you will enjoy the convenience of controlling your climate wherever you are.

What with Wi-Fi control?

Haier Wi Fi control will realize the normal control including on/off, cooling/heating/fan, setting temperature, adjusting fan speed etc. Moreover, it will also realize recommending or DIY sleep mode temperature curve, setting up weekly timer etc.

Smart

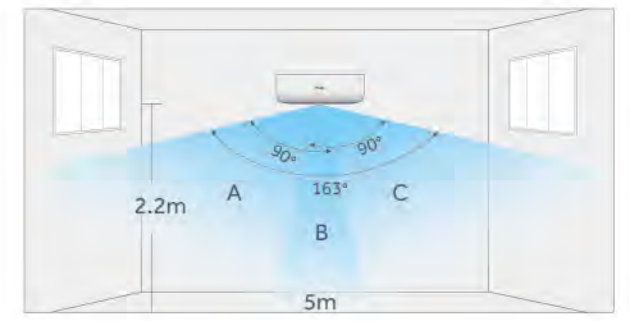
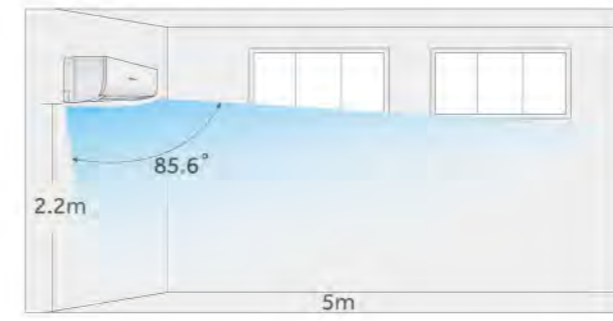
The intelligent sensors divide the room into 3 sections. By detecting the number, location and movements of people it realizes intelligent control on the temperature and airflow. People could choose the airflow to follow or avoid their movements. In addition, the temperature could be automatically adjusted to energy-saving operation according to the number of people.

The 'I Feel U' feature is detailed in this diagram. It starts with the 'Intelligent Eyes' sensor on the air conditioner. Below it, six scenarios are shown with illustrations and descriptions:

- Direct airflow:** Illustration of a person sitting at a table with air blowing directly at them.
- Air evading:** Illustration of a person sitting at a table with air blowing away from them.
- Air following:** Illustration of a person walking with air following their movement.
- Setting temperature 1°C down when people gathers (under heating):** Illustration of a group of people gathered around a table.
- Setting temperature 1°C up when some of the people left (under cooling):** Illustration of a person sitting at a table with others absent.
- Auto power saving for empty room:** Illustration of an empty room.

At the bottom of the diagram is a photograph of the Haier air conditioner unit.

Effective sensing range



Comfort

Stay full comfort with innovative design



Super quiet

Enjoy super quiet [lowest at 18dB(A)] while using Haier inverter air conditioner



Feeling disturbed by the air conditioner operating noise? Haier air conditioning levels up the noise control technology including adoption of inverter compressor, DC inverter indoor motor and optimized air duct design etc. to decrease dramatically the noise level even lowest at 18 dB(A) with the specialized QUIET setting.

(Remark: 18 dB(A) refers Cristal series 9000BTU model.)



40



30

25



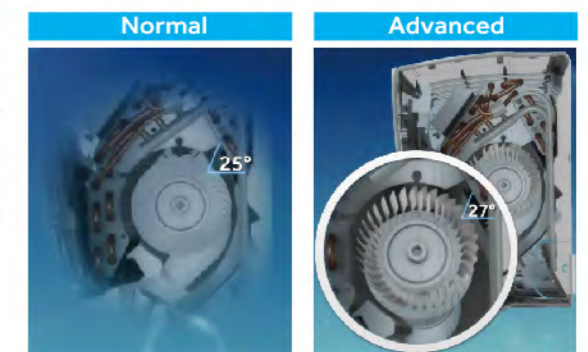
20

18

dB(A)

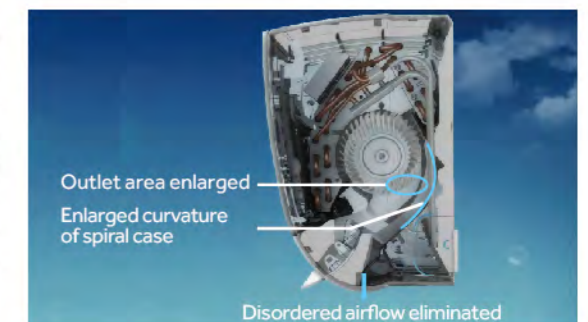
Optimized cross flow fan design

- With adoption of optimized cross flow fan, the heat exchange rate is enhanced by 10%. Indoor Motor speed is lowered and noise is reduced under same airflow volume.
- Through optimizing the inclination angle of cross flow fan blade, the airflow surrounding the fan blade is less distorted and the fan noise is minimized.



Optimized air duct design

- Through adjustment of spiral casing, airflow duct design is optimized to decrease flow loss.
- With adoption of optimized streamline air duct, air volume is increased by 10% with air outlet area enlarged and inlet area decreased. The indoor motor running speed and noise under same air flow volume are lowered.
- Match between the blade shape and air outlet angle is bettered to decrease disordered air flow which will help to eliminate abnormal sound.

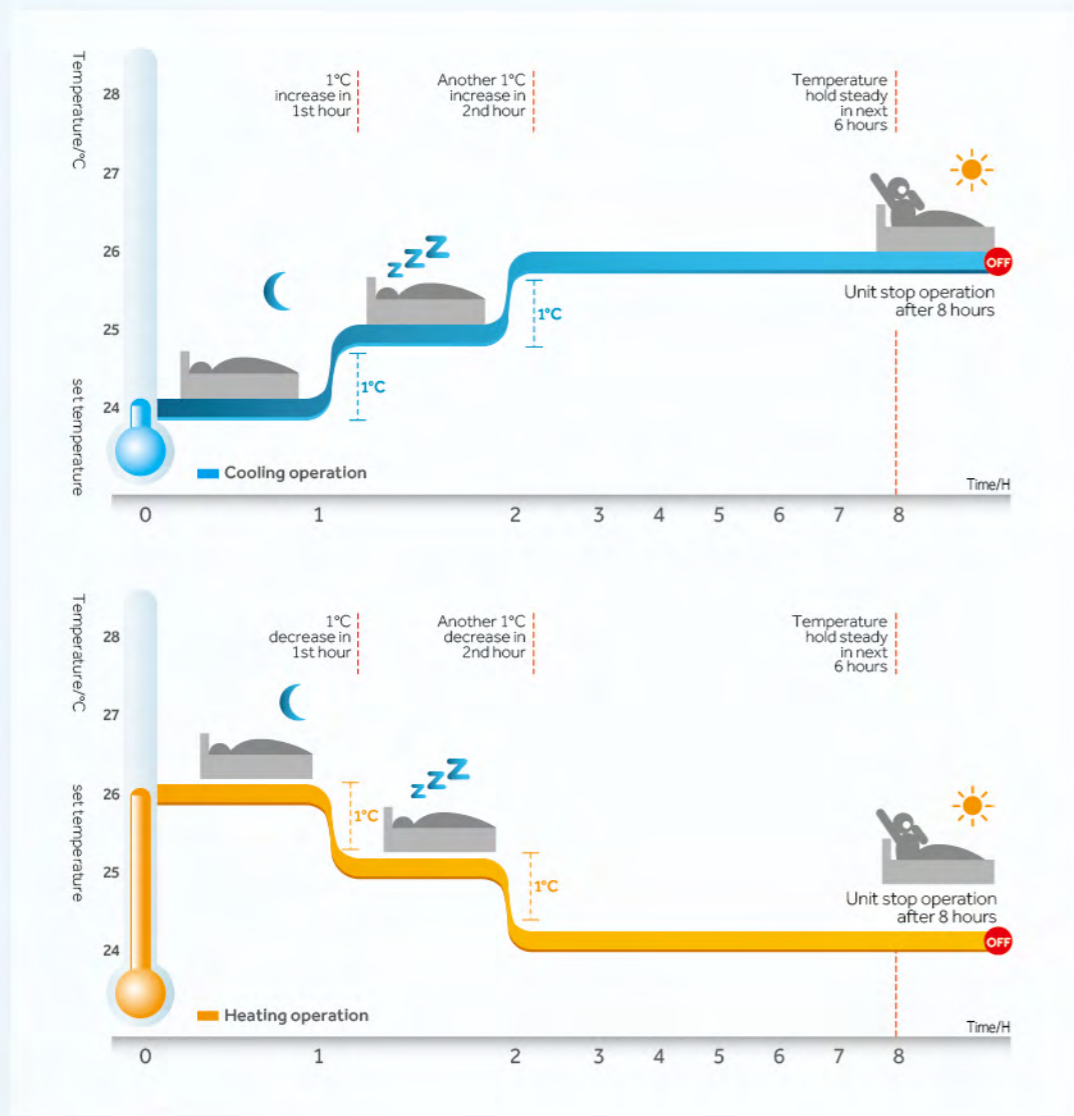


Comfort

Comfortable sleep

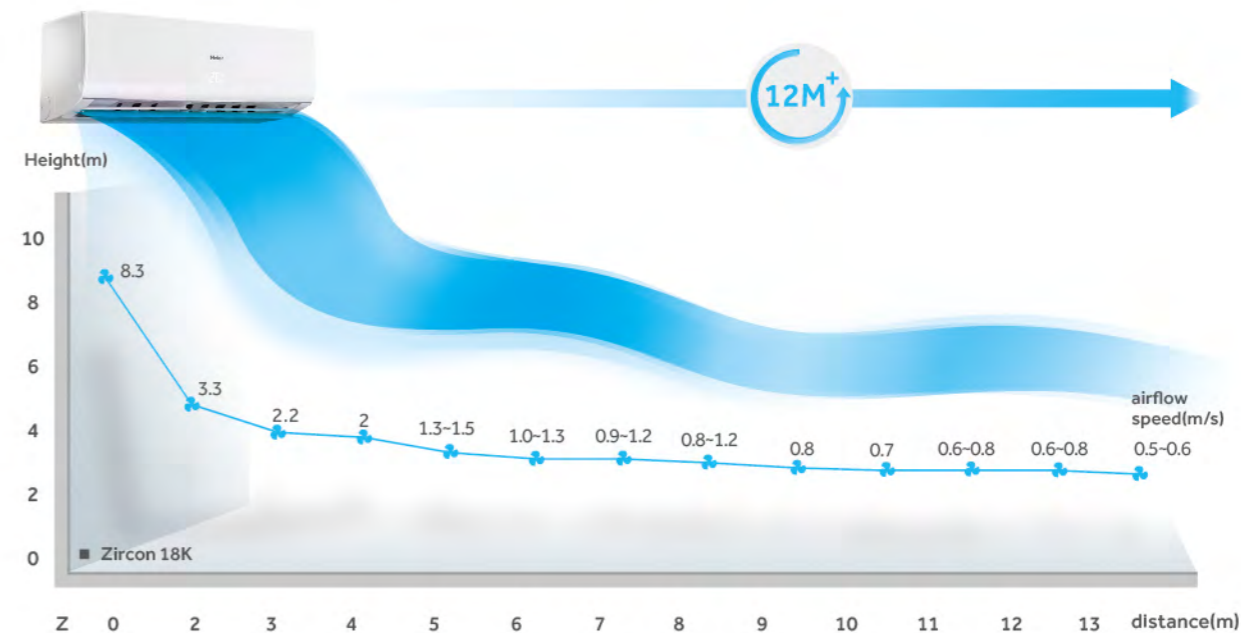
Operates under a special program while SLEEP mode is chosen

Waking up at midnight because feeling cold with air conditioner on? Thinking to turn off the air conditioner before going asleep to save energy? Haier air conditioning has a special program designed for the night sleep so it will become not so hot or cold at night to ensure the utmost comfort and energy saving during night sleep.



Far distance air supplying

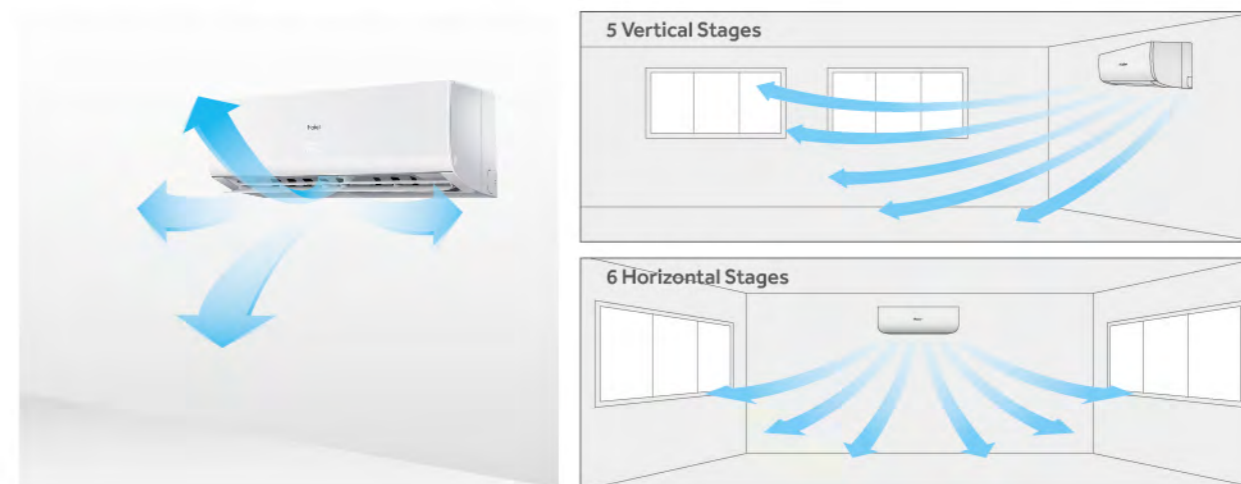
No even temperature in too big room with air conditioner? Having to be seated near to the air conditioner to enjoy the coolness or warmth? Haier air conditioner, with specially designed cross flow fan and optimized air duct, can make air supply as far as 12 meters for 12000BTU models and near to 15 meters for 18000BTU models.

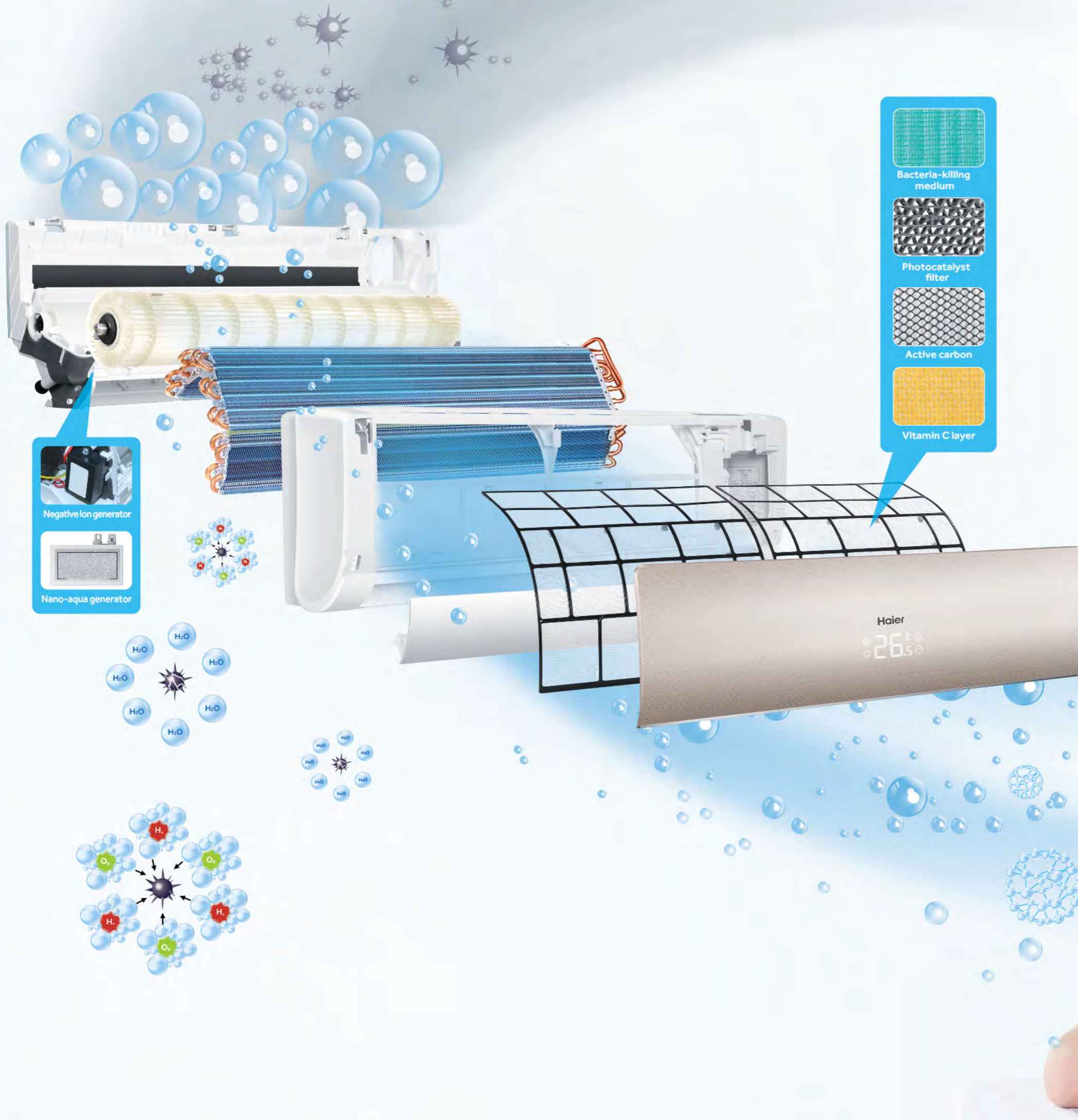


Test condition: Test is made with ZIRCON and NEBULA 18000BTU models with fan speed set HIGH under stable working condition in an air tight room.

3D airflow

Through horizontal and vertical movement of blades to realize the air flows upwards, downwards, left and right. Make the customer feel comfortable at every corner of the room.





-  Bacteria-killing medium
-  Photocatalyst filter
-  Active carbon
-  Vitamin C layer

-  Negative ion generator
-  Nano-aqua generator

Health

The air purifying system provides clean air and care your health

```

graph TD
    Health((Health)) --- Ionizer((Ionizer))
    Health --- MultiLayersFilter((Multi-layers filter))
    Health --- NanoAqua((Nano aqua))
    
```


Health

Nano aqua

Do you feel uncomfortable in the dry weather?
Because your skin are losing moisture!



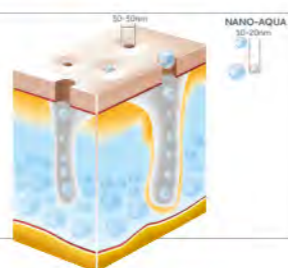
Air purification

Nano Aqua generator also ionizes the water molecule into H⁺ and O₂⁻ which change to active substances OH or H₂O₂ after chemical reaction, killing the bacteria by changing the molecule structure.



Skin care

Nano Aqua generator will react with water to generate micro cluster water, which can be easily absorbed by the horny layer of the skin, keeping the skin moist.



Bacteria-killing medium(optional)

3-in 1 Effect
Anti-Allergen, Anti-Virus, Anti-Bacteria & Mould



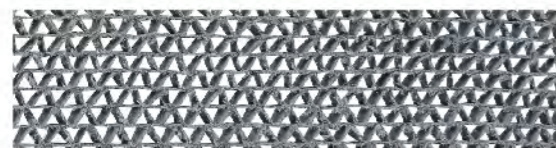
Vitamin C layer(optional)

Haier air-con's VC layer can release fresh VC to the air.



Photocatalyst filter(optional)

Photocatalyst Filter eliminates a variety of odors-causing substances from cigarette smoke particles to chemical vapors. Exposing the filter to sunlight will regenerate the deodorizing effect.



Activated carbon(optional)

Activated carbon can effectively remove the benzene, radon, TVOC and other articles which are harmful to human body. It also has obvious purification function.



Health

Healthy ionizer

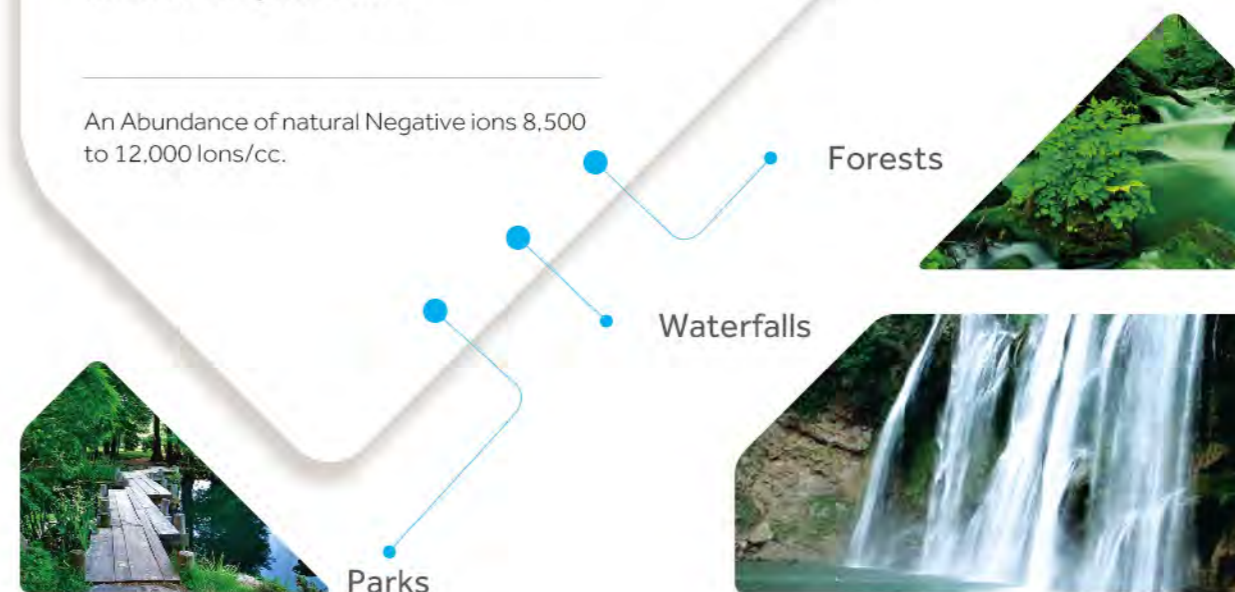
Enjoy the feeling of a forest at home.
Just press the health button, your room is filled with refreshing ions.

Negative ion is known as "the vitamin in the air" as it has a wide function including air purifying, sterilization and medical effects.

When negative ion concentration reaches to 20,000 per cubic centimeter, the air particulates level will be reduced by 98%.
When this function is switched on, the concentration would reach to tens of thousands in 10 minutes and one million within half an hour.

Haier air conditionetion Approx. 20,000 ions/cc for your room

An Abundance of natural Negative ions 8,500 to 12,000 ions/cc.



Negative ion generator

Negative ion generator is an independent part, which switches the input power to negative DC high voltage through step up circuit, generates high corona through the point DC high voltage and emits huge amount of electrons (e⁻). The electrons are captured instantly by oxygen molecules (O₂) in the air and negative ions are generated.



Negative ion generator

Performance

Advanced technology of component, system and control provides high performance for professional customers/users



Performance

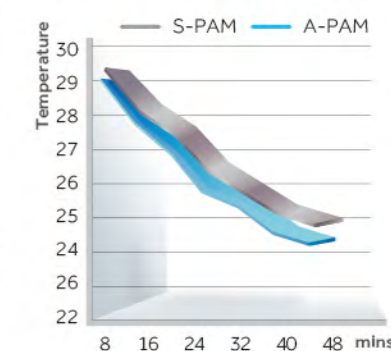
A-PAM DC inverter control

With adoption of S-TYPE, S-PAM and PHASE control technology (called A-PAM), Haier DC inverter air conditioning works more stably at low-frequency, and is more energy-saving, more powerful at high frequency.

- Cooling Efficiency 15% increased: To achieve a drop of 5 degrees centigrade, S-PAM technology takes 56 minutes, A-PAM technology takes 48 minutes.
- With precise control on voltage, the compressor will run more stably so that compressor working life is ensured and the system running noise is decreased.

Comparison with S-PAM

Temperature Reducing Comparison



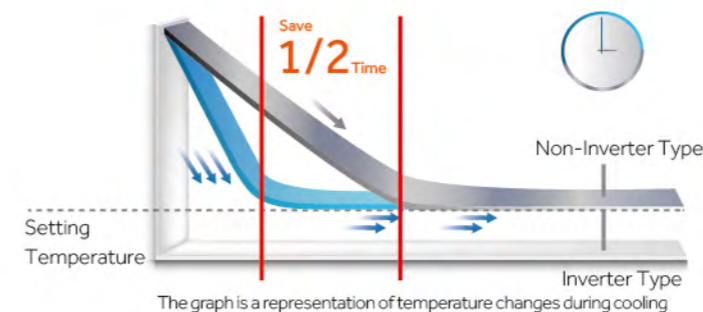
Test condition: Both 12000BTU Zircon models with A-PAM or S-PAM technology are tested under the same condition—running for entire 4 hours stably in standard lab with temperature set at 20°C and fan speed at HIGH.

Comparison with non-inverter

Quick comfort

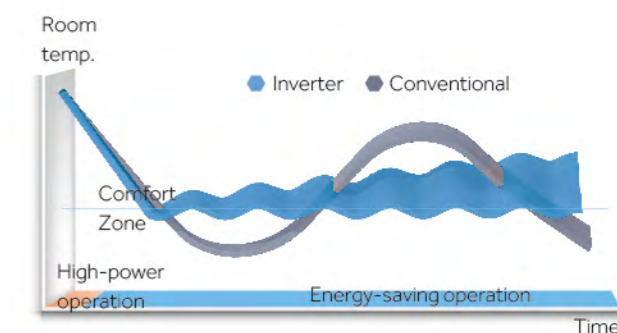
When an inverter air conditioner is switched on, it supplies the exact power needed to cool the room rapidly.

This enables the air conditioner to reach the set temperature in around half the time required by conventional models and to bring quick cooling and heating comfort to the customers.



Stable temperature operation

The inverter units can quickly and efficiently adjust the room temperature to reach the set temperature. It can maintain the operating temperatures within the "Comfort Zone" at all times to eliminate the temperature fluctuations associated with traditional on/off units.



Performance

Super match

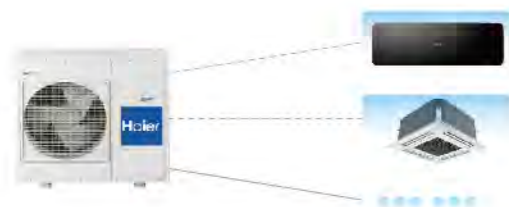
100% free combination, 51% less stock

For offices and apartments, villas and shops, Haier Air Conditioning provides total residential and light commercial solution with the innovative SUPER MATCH series. Stock management is made easy. Just imagine the savings in warehouse space, spare parts and logistics that all translate into cash-flow in your balance sheets.

Universal communication protocol technology

Universal outdoor unit for high-wall, console, cassette, convertible, duct and cabinet

Universal indoor unit for single split or multi split outdoor unit



High performance outdoor unit

PCB hangs upside down. This special water-proof design greatly ensures the long lifetime of PCB



Inside equipped with sealed side panel, it can prevent from condensing water drops of the outdoor fan so as to assure reliability



The metal casing is 3mm thicker than conventional outdoor, it provides more space for compressor and other components, which leads better heating radiation and avoiding collision of wiring and piping



Equipped with two independent handles, the outdoor unit is easier for transportation, installation and maintenance.

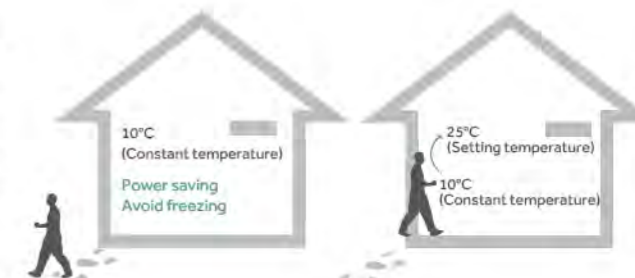
Small slope design of bottom plate makes more easy water draining out.



10°C heating maintenance

Prevent winter freezing in your summer house

Worrying about the damage by cold weather to your summer house in winter? Wasting too much energy if setting the temperature at 16 or 18 degree centigrade? Haier air conditioning is possible to set the system to switch on when indoor temp. drop below 10°C, thus avoiding frozen pipes so as to provide winter protection for unoccupied summer houses, garages and basements.



-20°C low ambient temperature heating

High performed components

Twin-rotary compressor and DC motor both indoor and outdoor ensure the good Performance in the cold winter.



Electrical deicer system



Electrical deicer equipped on the compressor which can improve the compressor start-up when cold winter.



• New improved electrical heating pipe with higher power up to 135W which can defrost effectively

• New designed bottom plate is much easier to drain

New designed refrigerant system

New distribution piping design can highly improve the heat exchanging effectively



Special designed defrosting programme

Auto defrosting: The unit will enter defrosting model if its sensor detects the risk of icing.

Fixed period of defrost: It can make the units enter defrosting after a fixed period by force, to thaw the ice attached on and around the units. And the ice caused by Nordic sharp heavy snow and ice rain can block units draining but uneasy to feel through outdoor temperature sensor.



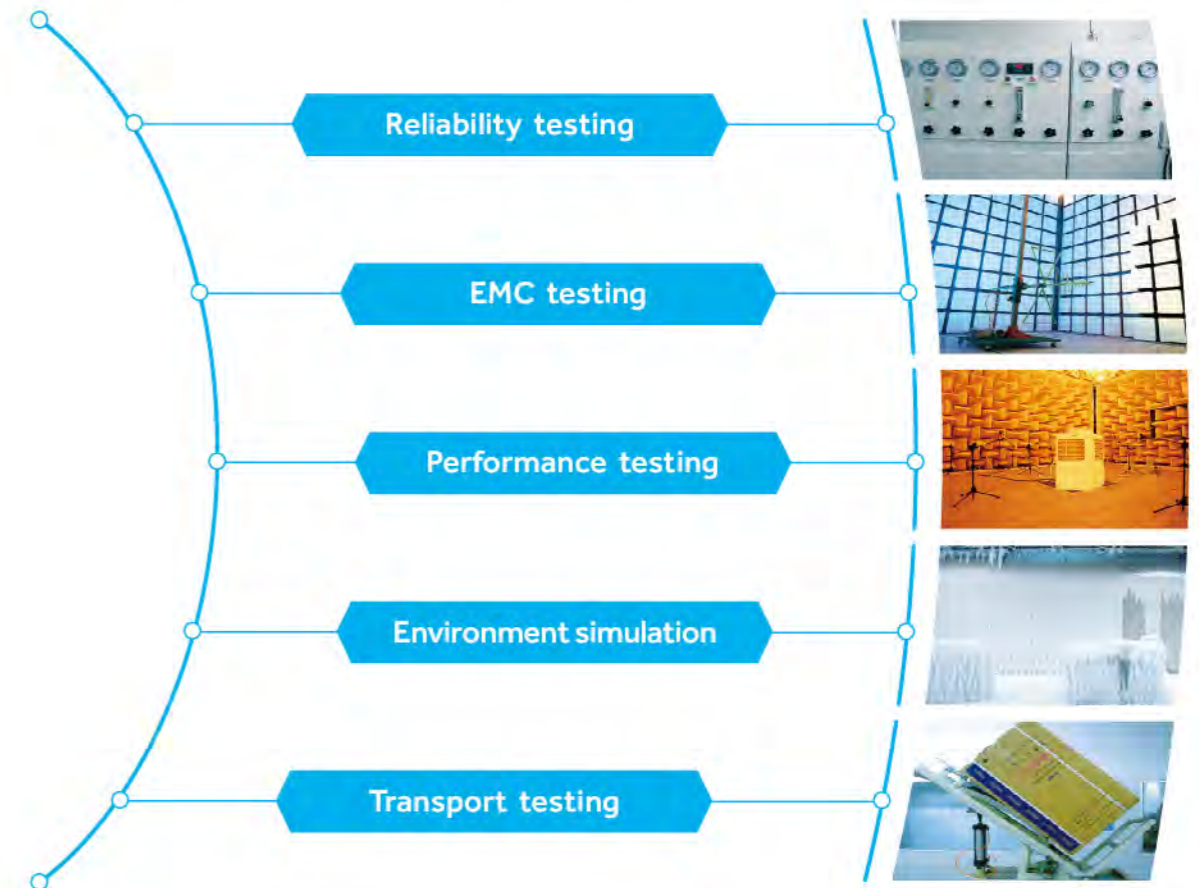
Reliability

High quality components

<p>High efficiency compressor</p>	<p>Haier twin rotary compressors feature powerful neodymium magnets which are 10 times more powerful than conventional magnets. Through adoption of high efficient compressors, electrical loss from power source can be reduced, power input can be maximized.</p> 
<p>Stepless speed transmission motor</p>	<p>Haier BLDC motor enables the unit to realize stepless speed transmission which results in less energy consumption, lower noise and greater comfort.</p> 
<p>Inner grooved cooper pipe</p>	<p>Haier cooper pipe is grooved with inner slots to enlarge the contact area between refrigerant gas and cooper pipe. The heat exchange efficiency is increased by 30-50%.</p> 
<p>Blue fin evaporator</p>	<p>Haier evaporator adopts new generation blue aluminum fin which specialize in strong corrosion resistance and super hydrophilic performance. The benefits for the customers are as follows.</p> <ol style="list-style-type: none"> 1. Energy saving. The super hydrophilic performance enhances the heat exchanging efficiency by 40%. 2. Long life running. The blue fin evaporator is more resistant to corrosion with anti-corrosion coating on the surface, which enable the units to enjoy durable and long-life running. 

Labs

Haier has the world-class testing equipments with high control precision, has achieved authorization from European EN45001, American UL, Canadian CSA, Australian TCA, U.S. ETL.



Quality certificates



Key Features & Benefits

Smart



Wi-Fi control

Control your air conditioning system with smart phone or tablet which can connect internet.



I-Feel U

Automatically adjust operation frequency and modes to save energy, improve comfort and conveniently monitoring human location, movements, absence with 2 human activity sensors.



On-Off card

The On-Off card can control the system with a room card in the remote place through the level signal. It is widely adopted in the building, hotel or other commercial space. Convenient for management.

Comfort



Super quiet

Optimize the noise control technology, such as frequency adjustment, fan speed control and air flue design decreasing noise level lowest to 18 dB(A) (refer to Cristal 9k).



Comfortable sleep

The setting temperature and the indoor noise can be adjusted to a more comfortable level when you set the "sleep mode" during night sleep.



3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically, solving the feeling like nature wind.



Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 12m+ maximum (refer to Nebula 12k).



Intelligent air

Airflow automatically upward when cooling or downward when heating to spread air comfortably throughout the large room while without blowing directly to human body.



Carpet airflow

The special designed function for console type makes the possibility of airflow blowing along with the floor level so as to provide the extreme comfort like warm carpet especially the winter bedroom.



Left & Right airflow

With specialized motor and flaps, the airflow can be adjusted horizontally and automatically.



DIY auto mode

You can set a temperature value, with which the unit can adjust the operation mode automatically.



Auto mode

According to the fixed temperature 26°C (under cooling) or 23°C (under heating), the unit will adjust the operation mode automatically.



Quiet mode

Just press the button "turbo/quiet" on the remote controller, the air conditioner will work in quiet mode.



Turbo mode

Just press the button "turbo/quiet" on the remote controller, the air conditioner will work in turbo mode to get the fast cooling or heating.



Precise temp control 0.5°C

Can make the setting temperature by 0.5°C so to achieve more precise comfort and energy saving.

Health



Nano-aqua

Haier unique Aqua generator can ionize water molecules into H⁺ and O₂⁻ as well as small cluster of water, which can keep your skin moist and have the effect of air purification.



Negative ion

The negative ionizer can produce approx. 20000 negative ions/cc, which can clear dusts and bacterias so to purify the indoor air and care your health.



Evaporator self-cleaning

With a new-generation hydrophilic foil, when the air conditioner in cooling or drying mode, the dust on evaporator will be taken away by condensed water flowing ready.



Exquisite filter

Effectively prevent the smaller dust articles, insects and other materials coming into the room.



Anti-mold filter

Catches most small articles and remove unpleasant odors efficiently.



Negative ion filter

The filter is durable which could automatically release negative ion, and has antibacterial, deodorizing function.



DRY function

When the unit working in dry mode, it can adjust the indoor fan motor speed automatically according to the temperature gap between setting temperature and room temperature so as to get mild dehumidification or strong dehumidification.

Design



Original 3D-cant lifting panel

The panel could be lifted up when power on and move back when power off.



Integrative structure design

The optimized design integrates the bottom base, drain pan and frame casing together so as to level up product reliability and lower vibration.



Integrative valve cover

This valve cover is designed to cover both wing terminal block and stop valves so as to enhance protect effect with nice design.



2-way piping design

The indoor unit offers the possibility of left or right piping direction.



Easy clean design

The indoor front panels are easy to wash and the air flaps are easy to detach without any special tools for quick cleaning.



Blue fin

The hydrophilic aluminum foil makes condensing water flow smoothly so guarantees the better performance with anti-corrosion effect.

Performance



Super match

The innovative SUPERMATCH range realizes 100% universal indoor & outdoor free combination which make management of sales, warehouse and spare parts much more easier and more efficient.



A-PAM DC inverter

A-PAM inverter technology is the upgrade of 180° sine wave inverter, it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.



180° sine wave DC inverter

180° sine wave DC inverter technology, guarantee the reliable comfort and energy saving.



20°C heating

A special design for heating even at lowest ambient temperature -20°C with twin rotary compressor, DC motor optimized bottom plate electric heating cable and special defrosting programme etc.



10°C cooling

Special design for heating even at lowest ambient temperature -10°C with high frequency rotary compressor, optimized refrigerant system and special defrosting programme etc.



15°C heating

A special design for heating in cold winter even at -15°C with twin rotary compressor, DC motor optimized bottom plate electric heating cable and special defrosting programme etc.



10°C heating maintenance

It is possible to set the system to switch on when indoor temp. drop below 10°C, thus avoiding frozen pipes, and so provide winter protection for unoccupied summer homes, garages and basements.



Wide voltage for inverter

The inverter unit can start up from 150V and operate in a wide voltage range from 150V-264V.



DC motor

DC motor ensures more reliable operation with much higher energy saving and lower noise.



Precise temp control 0.5°C

Temperature can be set by 0.5°C so to achieve more precise comfort and energy saving.



Dual flaps airflow system

Equip two flaps with two swing motors working separately to help circulate the air in the room so giving more comfort.



24 hours timer

Use the timer function to set on, or off, or from on to off, or from off to on etc. within 24 hours.



Two separate step motor control

Make the control of air flow direction flexible no matter you want to avoid the air flow or want to facing the enhanced wind.



Single step motor control

You can change the two right & left blade simultaneously.



Vertical auto swing

The vertical auto swing automatically send the air across the room in an up and down motion, it can realize 5 steps air angle 2 intelligent air angle and total auto blowing when the unit is switched off, the flap will close automatically.



Electrical deicer

The outdoor bottom plate is equipped with a special designed electrical heating cable to deicer in the cold winter.



Smart defrosting

Haier smart defrost process is only performed when needed which reduces energy waste by eliminating the unneeded defrosting process. Enjoy maximum comfort in heating operation by reducing defrosting time.



Indoor 5 steps fan speed

The indoor can be remote controlled with 5 steps of fan speed, powerful/high/middle/low/quiet, which offer more choice for you to get comfort airflow.



Outdoor 6 steps fan speed

The outdoor is designed with 6 steps of fan speed, the fan speed can be automatically adjusted according to the intelligent control of ambient sensor and tubing sensor so that optimize the heat exchanging effect and improve energy efficiency.



3 minutes protection

The 5 minutes protection of the compressor can avoid some damages to it and makes the compressor have a longer life.



Long life reliable PCB

Haier PCB is tested 96 hours under hard environment temperature 85°C & moisture 85%, this test condition is more or less 10 years under normal condition.



Auto restart

The function permits automatic return to previous operation conditions after a sudden power break.



Warm start

when the unit start working at heating mode, or change from cooling mode to heating mode, the unit will not blow or blow at super low speed in order to avoid cold air disturbance.

Display



Concealed LED display

Special designed panel and LED display which make it possible to show the working states and functions only when the unit on while the display and frame can not be seen when unit off in order to keep indoor decoration with sense of wholeness. Of course you can cancel the display whenever you want.



6-color 6-color LED display

The six colors represent 6 working states and functions such as blue-cooled-head light, blue-dry while auto orange-fan and green-nano aqua, the LED displays like human breathe rate (16-18/min) and it can be invisible when you turn it off with remote controller.



Double 8 display

Simple 88 display shows clearly the indoor unit setting temperature (when setting) or room temperature (after setting).



Self-diagnosis

The LED display of the indoor units will show the error code in order to make service more easier.

Residential



Haier

26.5



HIGH SEASONAL

37 Intelligent series 39 Crystal series

SEASONAL SUPER MATCH



































41 Aqua series 43 Nebula series 45 Zircon series

47 Brezza series 49 Console series

SEASONAL INVERTER

51 Geos series

Models Line-up

Type	Series	Remote Controller	9K	12K	15K	18K	24K	Outdoor
HIGH SEASONAL	Intelligent		 A+++/A++	 A++/A++				
	New Crystal <small>Wi-Fi (standard)</small>		 A++/A++	 A++/A++				
SEASONAL SUPER MATCH	Aqua <small>Wi-Fi (optional)</small>		 A+/A	 A+/A				
	New Nebula <small>Wi-Fi (standard in silver & golden panel)</small>		 A++/A+	 A++/A+		 A++/A+	 A++/A+	
	Zircon		 A++/A+	 A++/A+		 A++/A+	 A++/A+	
	New Brezza		 A++/A+	 A++/A+		 A++/A+	 A++/A+	
	Console		 A/A	 A/A				
SEASONAL INVERTER	Geos		 A/A	 A/A		 A/A	 A/A	

Benefits (Wall-mounted)

Series	Model (indoor unit)	Model (outdoor unit)	Smart										Comfort						Performance										
			WiFi control	IFeelU	On-Off card	Super quiet	Comfortable sleep	3D airflow	Long distance air supplying	Intelligent air	Carpet airflow	Left & Right airflow	DIY auto mode	Auto mode	Quiet mode	Turbo mode	Precise temp control 0.1°C	Super match	A-PAM DC inverter	180° sine wave DC inverter	-20°C heating	-10°C cooling	-15°C heating	10°C heating maintenance	Wide voltage for inverter	DC motor	Electrical deicer	Auto restart	3 minutes protection
Intelligent	AS09SB1HRA	1U09QE6ERA		✓	✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12SB1HRA	1U12QE6ERA		✓	✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Crystal	AS09CB1HRA	1U09QE3ERA	✓		✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12CB1HRA	1U12QE3ERA	✓		✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Aqua	AS09QS2ERA	1U09BS3ERA	✓		✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12QS2ERA	1U12BS3ERA	✓		✓	✓	✓	✓		✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Nebula	AS09NS1HRA	1U09BS3ERA	✓ <small>(Over/Under panel)</small>		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12NS1HRA	1U12BS3ERA	✓ <small>(Over/Under panel)</small>		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS18NS1HRA	1U18FS2ERA(S)	✓ <small>(Over/Under panel)</small>		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS24NS1HRA	1U24GS1ERA	✓ <small>(Over/Under panel)</small>		✓	✓	✓	✓	✓		✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Zircon	AS09ZB1HRA	1U09BS3ERA			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12ZB1HRA	1U12BS3ERA			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS18ZD1HRA	1U18FS2ERA(S)			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS24ZE1HRA	1U24GS1ERA			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Brezza	AS09NS2HRA	1U09BS3ERA			✓	✓	✓	✓		✓			✓			✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS12NS2HRA	1U12BS3ERA			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS18NS2HRA	1U18FS2ERA(S)			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AS24NS2HRA	1U24GS1ERA			✓	✓	✓	✓		✓					✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Console	AF09AS1ERA	1U09BS3ERA			✓	✓	✓				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	AF12AS1ERA	1U12BS3ERA			✓	✓	✓				✓				✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Geos	AS09GB2HRA	1U09BE5ERA					✓				✓				✓	✓	✓		✓			✓					✓	✓	✓
	AS12GB2HRA	1U12BE5ERA					✓				✓				✓	✓	✓		✓			✓					✓	✓	✓
	AS18GD2HRA	1U18EE5ERA					✓				✓				✓	✓	✓		✓			✓					✓	✓	✓
	AS24GF2HRA	1U24GE5ERA					✓				✓				✓	✓	✓		✓			✓					✓	✓	✓

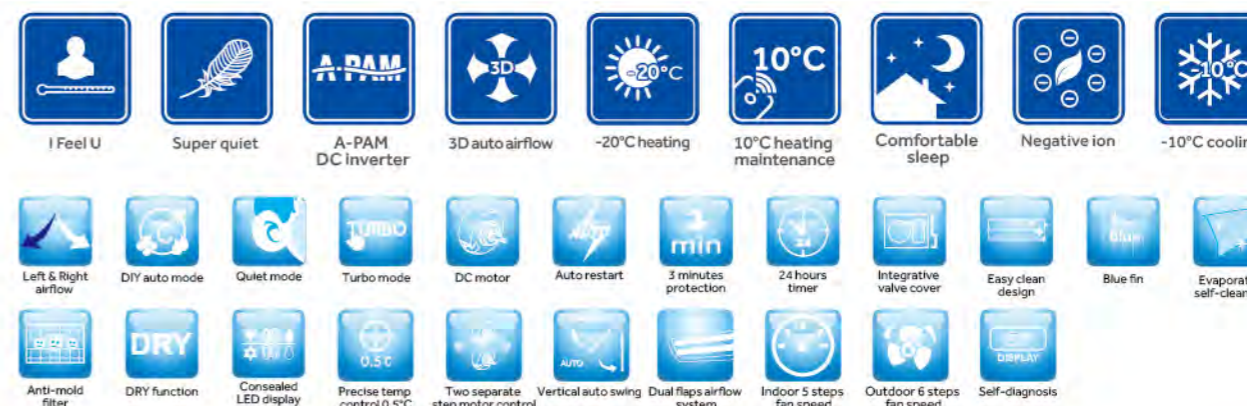
✓ : Standard ✓ : Optional

Benefits (Wall-mounted)

Series	Model (indoor unit)	Model (outdoor unit)	Performance										Design						Health						Display		
			24 hours timer	Dual flaps airflow system	Vertical auto swing	Smart defrosting	Indoor 5 steps fan speed	Outdoor 6 steps fan speed	Long life reliable PCB	Warm start	Two separate step motor control	Single step motor control	Original 3D-cant lifting panel	Integrative structure design	Integrative valve cover	2-way piping design	Easy clean design	Blue fin	Nano-aqua	Negative ion	Evaporator self-cleaning	Exquisite filter	Anti-mold filter	Negative ion filter	DRY function	Concealed LED display	6-color LED display
Intelligent	AS09SB1HRA	1U09QE6ERA	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓	✓			✓
	AS12SB1HRA	1U12QE6ERA	✓	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓	✓			✓
Crystal	AS09CB1HRA	1U09QE3ERA	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
	AS12CB1HRA	1U12QE3ERA	✓		✓	✓	✓	✓	✓	✓	✓			✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
Aqua	AS09QS2ERA	1U09BS3ERA	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓			✓		✓		✓
	AS12QS2ERA	1U12BS3ERA	✓		✓	✓	✓	✓	✓	✓	✓		✓		✓	✓	✓	✓	✓	✓			✓		✓		✓
Nebula	AS09NS1HRA	1U09BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
	AS12NS1HRA	1U12BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
	AS18NS1HRA	1U18FS2ERA(S)	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
	AS24NS1HRA	1U24GS1ERA	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓	✓			✓
Zircon	AS09ZB1HRA	1U09BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓		✓		✓	✓			✓
	AS12ZB1HRA	1U12BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	AS18ZD1HRA	1U18FS2ERA(S)	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
	AS24ZE1HRA	1U24GS1ERA	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓		✓		✓	✓		✓
Brezza	AS09NS2HRA	1U09BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓				✓	✓
	AS12NS2HRA	1U12BS3ERA	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓				✓	✓
	AS18NS2HRA	1U18FS2ERA(S)	✓		✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓			✓				✓	✓
	AS24NS2HRA	1U24GS1ERA	✓	✓	✓	✓	✓	✓	✓	✓				✓	✓	✓	✓	✓	✓	✓			✓				✓
Console	AF09AS1ERA	1U09BS3ERA	✓				✓	✓	✓	✓					✓	✓			✓			✓	✓				✓
	AF12AS1ERA	1U12BS3ERA	✓				✓	✓	✓	✓					✓	✓			✓			✓	✓				✓
Geos	AS09GB2HRA	1U09BE5ERA	✓		✓		✓	✓	✓	✓					✓	✓			✓		✓					✓	✓
	AS12GB2HRA	1U12BE5ERA	✓		✓		✓	✓	✓	✓					✓	✓			✓		✓					✓	✓
	AS18GD2HRA	1U18EE5ERA	✓		✓		✓	✓	✓	✓					✓	✓			✓		✓					✓	✓
	AS24GF2HRA	1U24GE5ERA	✓		✓		✓	✓	✓	✓					✓	✓			✓		✓					✓	✓

✓ : Standard ✓ : Optional

Haier



Intelligent

I feel you

A+++

AS09SB1HRA AS12SB1HRA
1U09QE6ERA 1U12QE6ERA

I feel U

Automatically adjust operation frequency and modes to save energy, improve comfort and convenience by monitoring human location, movements, absence with 2 human activity sensors.

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 22dB(A) with the specialized QUIET setting. (refer to 9k)

Negative ion

The negative ionizer can produce approx. 20000 negative ions/cc which can clear dusts and bacterias so to purify the indoor air and care your health.

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter, it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.

3D airflow

The 3D airflow is able to deliver the airflow horizontally and vertically, so bring the feeling like nature wind.

Model	Indoor	Outdoor	AS09SB1HRA 1U09QE6ERA	AS12SB1HRA 1U12QE6ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h	9350(4430-12290)	12400(4780-14670)
	Nominal (Min.-Max.)	kW	2.7(1.3-3.6)	3.6(1.4-4.3)
Energy efficiency(average climate)	SEER/EER	Energy Saving	8.50/4.3	7.5/3.9
Energy class - Cooling			A+++	A++
Cooling Pdesign capacity(35°C)			2.6	3.5
Power input - Cooling	Nominal (Min.-Max.)	kW	0.65(0.35-1.45)	0.90(0.37-1.55)
Annual energy consumption - Cooling		kWh/a	113	158
	Nominal (Min.-Max.)	Btu/h	11930(4780-12970)	13640(4780-15690)
	Heating @ -7°C	Btu/h	8870	11940
Heating Capacity	Nominal (Min.-Max.)	kW	3.2(1.4-3.8)	4.0(1.4-4.6)
	Heating @ -7°C	kW	2.6	3.5
Energy efficiency	SCOP/COP	Energy Saving	4.7/4.20	4.6/4.1
Energy class - Heating			A++	A++
Heating Pdesign capacity (-10°C)			2.6	3.2
Power input - Heating	Nominal (Min.-Max.)	kW	0.77(0.33-1.3)	1.01(0.38-1.48)
Annual energy consumption - Heating		kWh/a	773	976
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-20-24°C(out)	10-27°C(in)/-20-24°C(out)
Power supply		Ph/V/Hz	1-230-50	1-230-50
Power supply (position)			indoor	indoor
40H FCL (set)		*just for reference	200	200
Indoor				
Net dimension	W/D/H	mm	800*298*243	800*298*243
Package dimension	W/D/H	mm	888*335*390	888*335*390
Net/Shipping weight		kg	12/15	12/15
Air flow(cooling/heating)	Max.	m³/h	650	700
Sound power level	Cooling (Hi)	dB	54	55
	Heating (Hi)	dB	55	56
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	36/30/24/22	37/31/25/23
	Heating (Hi/Mid/Lo/So)	dB(A)	37/31/25/23	38/32/26/24
Moisture removal		l/h	1.4	1.6
Outdoor				
Net dimension	W/D/H	mm	780*275*595	780*275*595
Package dimension	W/D/H	mm	910/390/619	910/390/619
Net/Shipping weight		kg	34/37	34/37
Air flow(cooling/heating)	Max.	m³/h	2100	2100
Sound power level	Hi	dB	62/63	63/64
Sound pressure level	Hi	dB(A)	50/51	51/52
Running current	Max.	A	7.1	8.1
Refrigerant charge	R410A	g	1150	1150
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB; Cooling Outdoor 35°C DB / 24°C WB; Heating Indoor 20°C DB; Heating Outdoor 7°C DB / 6°C WB; DB: Dry Bulb; WB: Wet Bulb
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Crystal Wi-Fi A++

Control your climate easily from wherever

AS09CB1HRA AS12CB1HRA
1U09QE3ERA 1U12QE3ERA

Wi-Fi control

Control your air conditioning system with smart phone or tablet, which can connect internet.

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 18 dB(A) with the specialized QUIET setting. (refer to 9k)

Nano-aqua

Haier unique Aqua generator can ionize water molecules into H⁺ and O₂⁻ as well as small cluster of water, which can keep your skin moist and have the effect of air purification.

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter, it adopts additional momental control to decrease the vibration in the low compressor frequency and also contribute to great energy saving.

3D airflow

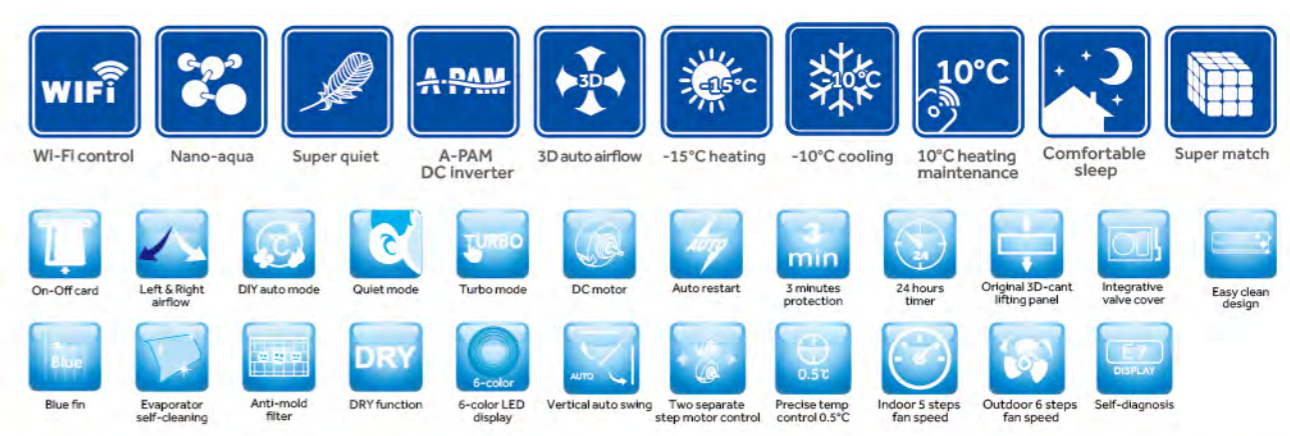
The 3D airflow is able to deliver the airflow horizontally and vertically, so bring the feeling like nature wind.

Model	Indoor Outdoor		AS09CB1HRA 1U09QE3ERA	AS12CB1HRA 1U12QE3ERA
	Cooling Capacity	Nominal (Min.-Max.)	Btu/h	9210(4090-11600)
	Nominal (Min.-Max.)	kW	2.7 (1.2-3.4)	3.6(1.4-4.1)
Energy efficiency(average climate)	SEER/EER	Energy Saving	7.1/4.0	6.8/3.8
Energy class - Cooling			A++	A++
Cooling Pdesign capacity(35°C)			2.7	3.6
Power input - Cooling	Nominal (Min.-Max.)	kW	0.67(0.32-1.35)	0.95(0.36-1.40)
Annual energy consumption - Cooling		kWh/a	133	185
	Nominal (Min.-Max.)	Btu/h	10580(4430-12970)	13300(4780-15020)
Heating Capacity	Nominal (Min.-Max.)	kW	3.0(1.3-3.8)	3.9(1.4-4.4)
	Heating @ -7°C	Btu/h	8870	11270
	Heating @ -7°C	kW	2.6	3.4
Energy efficiency	SCOP/COP	Energy Saving	4.6/4.2	4.6/4.0
Energy class - Heating			A++	A++
Heating Pdesign capacity (-10°C)			2.6	3.2
Power input - Heating	Nominal (Min.-Max.)	kW	0.77(0.32-1.40)	1.05(0.34-1.48)
Annual energy consumption - Heating		kWh/a	791	973
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-20-24°C(out)	10-27°C(in)/-20-24°C(out)
Power supply	Ph/V/Hz		1-230-50	1-230-50
Power supply (position)			outdoor	outdoor
40H FCL (set)	*just for reference		200	200
Indoor				
Net dimension	W/D/H	mm	907×198×309	907×198×309
Package dimension	W/D/H	mm	1015×290×413	1015×290×413
Net/Shipping weight		kg	11.5/14	11.5/14
Air flow(cooling/heating)	Max.	m ³ /h	630	700
Sound power level	Cooling (Hi)	dB	52	54
	Heating (Hi)	dB	53	55
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	36/32/26/18	37/33/27/20
	Heating (Hi/Mid/Lo/So)	dB(A)	37/32/26/19	38/33/27/21
Moisture removal		l/h	1.4	1.6
Outdoor				
Net dimension	W/D/H	mm	780×275×595	780×275×595
Package dimension	W/D/H	mm	910×390×619	910×390×619
Net/Shipping weight		kg	34/37	34/37
Air flow(cooling/heating)	Max.	m ³ /h	2100	2100
Sound power level	Hi	dB	62/63	63/64
Sound pressure level	Hi	dB(A)	52/53	53/54
Running current	Max.	A	6.5	7.0
Refrigerant charge	R410A	g	1150	1150
	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
Refrigerant pipe	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, DB: Dry Bulb, WB: Wet Bulb
For detailed information about E.P, please visit our page <http://www.haier.com/ecodesign>



EU R410a
Haier Air Conditioning



Aqua Wi-Fi (optional) Visible fashion, Invisible comfort A+

AS09QS2ERA AS12QS2ERA
1U09BS3ERA 1U12BS3ERA

3D-cant lifting panel

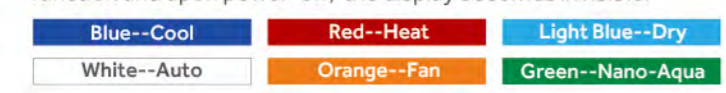
Double-motor design makes 3D auto swing possible, rotating the flap up and down for delivering vertical airflow and moving the blades left and right for delivering horizontal airflow.

The front panel will rise up while power on and move back while power off, enlarging air inleting and venting space for high efficiency even with super thin design.



6 Color Lights Concealed LED Display

6 color lights: Different color represents different running state and function and upon power-off, the display becomes invisible.

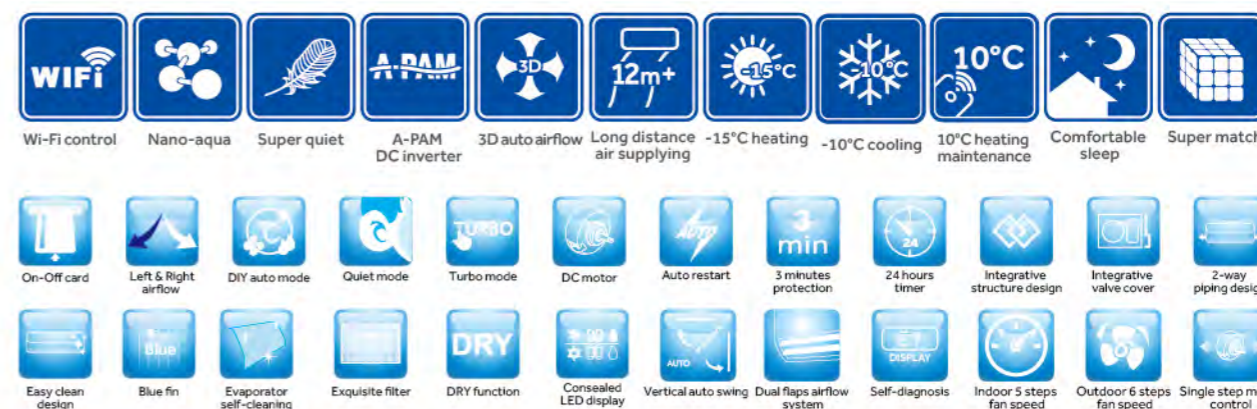


Breathing frequency flash: The human-oriented design bases on people's breathing rate(16-18/min), more conducive to sleep.



Model	Indoor Outdoor		AS09QS2ERA 1U09BS3ERA	AS12QS2ERA 1U12BS3ERA
	Cooling Capacity	Nominal (Min.-Max.) Nominal (Min.-Max.)	Btu/h kW	9000(3070-10580) 2.63(0.9-3.1)
Energy efficiency(average climate)	SEER/EER	Energy Saving	5.8/3.7	5.8/3.5
Energy class - Cooling			A+	A+
Cooling Pdesign capacity(35°C)			2.63	3.5
Power input - Cooling	Nominal (Min.-Max.)	kW	0.70(0.32-1.30)	0.99(0.35-1.35)
Annual energy consumption - Cooling		kWh/a	159	211
Heating Capacity	Nominal (Min.-Max.)	Btu/h	9220(4100-10580)	12290(4430-13660)
	Heating @ -7°C	Btu/h	8530	10580
	Nominal (Min.-Max.)	kW	2.7 (1.2-3.1)	3.6(1.3-4.0)
	Heating @ -7°C	kW	2.5	3.1
Energy efficiency	SCOP/COP	Energy Saving	3.8/3.9	3.8/3.8
Energy class - Heating			A	A
Heating Pdesign capacity (-10°C)			2.5	3.1
Power input - Heating	Nominal (Min.-Max.)	kW	0.69(0.35-1.30)	0.96(0.38-1.42)
Annual energy consumption - Heating		kWh/a	995	1170
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply		Ph/V/Hz	1-230-50	1-230-50
Power supply (position)			outdoor	outdoor
40H FCL (set)	*just for reference		240	240
Indoor				
Net dimension	W/D/H	mm	860×175×285	860×175×285
Package dimension	W/D/H	mm	938×265×360	938×265×360
Net/Shipping weight		kg	10/11.7	10/11.7
Air flow(cooling/heating)	Max.	m³/h	600	620
Sound power level	Cooling (Hi)	dB	51	53
	Heating (Hi)	dB	52	54
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	34/30/24/22	35/30/25/23
	Heating (Hi/Mid/Lo/So)	dB(A)	35/31/25/23	36/31/26/24
Moisture removal		10³m³/h	1.2	1.6
Outdoor				
Net dimension	W/D/H	mm	780×245×540	780×245×540
Package dimension	W/D/H	mm	920×351×620	920×351×620
Net/Shipping weight		kg	29/32	31.2/34.2
Air flow(cooling/heating)	Max.	m³/h	1900	1700
Sound power level	Hi	dB	61/62	62/63
Sound pressure level	Hi	dB(A)	51/52	52/53
Running current	Max.	A	5.8	6.4
Refrigerant charge	R410A	g	900	1200
Refrigerant pipe	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, Dry Bulb: WB: Wet Bulb
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Nebula

Wi-Fi (standard in silver&golden panel)

Care of your health with high performance

A++

AS09NS1HRA AS12NS1HRA AS18NS1HRA AS24NS1HRA
1U09BS3ERA 1U12BS3ERA 1U18FS2ERA(S) 1U24GS1ERA

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 22dB(A) with the specialized QUIET setting. (refer to 9k)

Nano-aqua

Haier unique Aqua generator can ionize water molecules into nanometer water ion, which can be easily absorbed by skin so keeping your skin with moisture anytime.

3D airflow

Haier air conditioning offer the possibility to select automatic vertical and horizontal moving of the air discharge louvres, for uniform airflow and temperature distribution as far and as enough you can.

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 12m+ maximum. (refer to Nebula 18k)

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter control technology which adopt additional momental control to decrease the vibration in the low compressor frequency operation and also contribute to great energy saving.

Model	Indoor	Outdoor	AS09NS1HRA 1U09BS3ERA	AS12NS1HRA 1U12BS3ERA	AS18NS1HRA 1U18FS2ERA(S)	AS24NS1HRA 1U24GS1ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h	9210(3070-10920)	12290(4780-13310)	17740(5120-19110)	23890(6830-24910)
	Nominal (Min.-Max.)	kW	2.7 (0.9-3.2)	3.6(1.40-3.90)	5.2(1.50-5.60)	7.0(2.0-7.3)
Energy efficiency(average climate)	SEER/EER	Energy Saving	6.4/3.80	6.1/3.60	6.2/3.40	6.1/3.21
Energy class - Cooling			A+	A+	A+	A++
Cooling Pdesign capacity(35°C)			2.7	3.6	5.2	7
Power input - Cooling	Nominal (Min.-Max.)	kW	0.71(0.35-1.30)	1.00(0.37-1.35)	1.53(0.4-2.25)	2.18(0.45-2.65)
Annual energy consumption - Cooling		kWh/a	148	207	293	401
Heating Capacity	Nominal (Min.-Max.)	Btu/h	9560(4780-10920)	12630(4780-13990)	19790(5460-20480)	25600(8530-26620)
	Heating @ -7°C	Btu/h	8530	10920	16720	17400
Energy efficiency	Nominal (Min.-Max.)	kW	2.8(1.4-3.2)	3.7(1.40-4.1)	5.8(1.6-6.0)	7.5(2.5-7.8)
	Heating @ -7°C	kW	2.5	3.2	4.9	5.1
Energy class - Heating	SCOP/COP	Energy Saving	4.0/4.10	4.0/3.90	4.0/3.41	4.0/3.41
Heating Pdesign capacity (-10°C)			A+	A+	A+	A+
Power input - Heating	Nominal (Min.-Max.)	kW	0.68(0.36-1.30)	0.95(0.38-1.40)	1.70(0.41-2.35)	2.20(0.48-2.95)
Annual energy consumption - Heating		kWh/a	830	1114	1832	1979
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1-230-50	1-230-50	1-230-50	1-230-50
Power supply (position)			outdoor	outdoor	outdoor	outdoor
40H FCL (set)	*just for reference		238	238	160	135
Indoor						
Net dimension	W/D/H	mm	855x204x280	855x204x280	997x235x322	1115x248x336
Package dimension	W/D/H	mm	954x279x355	954x279x355	1085x329x403	1205x341x416
Net/Shipping weight		kg	10/12.2	10/12.2	13/16	16/19.6
Air flow(cooling/heating)	Max.	m³/h	600	650	900	1200
Sound power level	Cooling (Hi)	dB	52	54	57	62
	Heating (Hi)	dB	53	55	58	63
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	38/33/26/22	39/34/27/23	44/40/35/32	47/43/37/35
	Heating (Hi/Mid/Lo/So)	dB(A)	39/33/26/23	40/34/27/24	45/40/35/33	48/44/38/36
Moisture removal		l/h	1.2	1.6	2	2.8
Outdoor						
Net dimension	W/D/H	mm	780x245x540	780x245x540	810x288x688	860x308x730
Package dimension	W/D/H	mm	920x351x620	920x351x620	949x406x745	995x420x815
Net/Shipping weight		kg	29/32	31.2/34.2	43/45.5	49/52
Air flow(cooling/heating)	Max.	m³/h	1900	1700	2200	2900
Sound power level	Hi	dB	61/62	62/63	63/64	67/68
Sound pressure level	Hi	dB(A)	51/52	52/53	53/54	55/56
Running current	Max.	A	5.8	6.4	12.4	13.2
Refrigerant charge	R410A	g	900	1200	1300	1600
	Liquid side diameter	mm / inch	6.35	6.35	6.35	9.52
Refrigerant pipe	Gas side diameter	mm / inch	9.52	9.52	12.7	15.88
	Max. pipe length/height	m	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	10	10
	additional charge	g/m	20	20	20	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, DB: Dry Bulb, WB: Wet Bulb
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Zircon

Enjoy big flap airflow with full comfort

A++

AS09ZB1HRA AS12ZB1HRA AS18ZD1HRA AS24ZE1HRA
1U09BS3ERA 1U12BS3ERA 1U18FS2ERA(S) 1U24GS1ERA

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 23dB(A) with the specialized QUIET setting. (refer to 9k)

Negative ion

The negative ionizer can produce approx. 20000 negative ions/cc which can clear dusts and bacterias so to purify the indoor air and care your health.

Long distance air supplying

The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 12m+ maximum. (refer to Zircon 18k)

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter control technology which adopt additional momental control to decrease the vibration in the low compressor frequency operation and also contribute to great energy saving.

Model	Indoor	Outdoor	AS09ZB1HRA 1U09BS3ERA	AS12ZB1HRA 1U12BS3ERA	AS18ZD1HRA 1U18FS2ERA(S)	AS24ZE1HRA 1U24GS1ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h	9210(3070-10920)	12290(4780-13310)	17740(5120-19110)	23890(6830-24910)
	Nominal (Min.-Max.)	kW	2.7 (0.9-3.2)	3.6(1.40-3.90)	5.2(1.50-5.60)	7.0(2.0-7.3)
	SEER/EER	Energy Saving	6.4/3.80	6.1/3.60	6.2/3.40	6.1/3.21
Energy efficiency (average climate)			A++	A++	A++	A++
Energy class - Cooling			2.7	3.6	5.2	7
Cooling Pdesign capacity(35°C)			2.7	3.6	5.2	7
Power input - Cooling	Nominal (Min.-Max.)	kW	0.71(0.35-1.30)	1.00(0.37-1.35)	1.53(0.4-2.25)	2.18(0.45-2.65)
Annual energy consumption - Cooling		kWh/a	148	207	293	401
Heating Capacity	Nominal (Min.-Max.)	Btu/h	9560(4780-10920)	12630(4780-13990)	19790(5460-20480)	25600(8530-26620)
	Heating @ -7°C	Btu/h	8530	10920	16720	17400
	Nominal (Min.-Max.)	kW	2.8(1.4-3.2)	3.7(1.40-4.1)	5.8(1.6-6.0)	7.5(2.5-7.8)
Heating @ -7°C	kW	2.5	3.2	4.9	5.1	
Energy efficiency	SCOP/COP	Energy Saving	4.0/4.10	4.0/3.90	4.0/3.41	4.0/3.41
Energy class - Heating			A+	A+	A+	A+
Heating Pdesign capacity (-10°C)			2.4	3.2	5.2	5.6
Power input - Heating	Nominal (Min.-Max.)	kW	0.68(0.36-1.30)	0.95(0.38-1.40)	1.70(0.41-2.35)	2.20(0.48-2.95)
Annual energy consumption - Heating		kWh/a	830	1114	1832	1979
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1-230-50	1-230-50	1-230-50	1-230-50
Power supply (position)			outdoor	outdoor	outdoor	outdoor
40H FCL (set)		*just for reference	238	238	160	135
Indoor						
Net dimension	W/D/H	mm	855X204X280	855X204X280	997X235X322	1115X248X336
Package dimension	W/D/H	mm	954X279X355	954X279X355	1085X329X403	1205X341X416
Net/Shipping weight		kg	10/12.2	10/12.2	13/16	16/19.6
Air flow(cooling/heating)	Max.	m³/h	600	650	900	1200
Sound power level	Cooling (Hi)	dB	52	54	57	62
	Heating (Hi)	dB	53	55	58	63
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	38/33/26/22	39/34/27/23	44/40/35/32	47/43/37/35
	Heating (Hi/Mid/Lo/So)	dB(A)	39/33/26/23	40/34/27/24	45/40/35/33	48/44/38/36
Moisture removal		10³m³/h	1.2	1.6	2	2.8
Outdoor						
Net dimension	W/D/H	mm	780X245X540	780X245X540	810X288X688	860X308X730
Package dimension	W/D/H	mm	920X351X620	920X351X620	949X406X745	995X420X815
Net/Shipping weight		kg	29/32	31.2/34.2	43/45.5	49/52
Air flow(cooling/heating)	Max.	m³/h	1900	1700	2200	2900
Sound power level	Hi	dB	61/62	62/63	63/64	67/68
Sound pressure level	Hi	dB(A)	51/52	52/53	53/54	55/56
Running current	Max.	A	5.8	6.4	12.4	13.2
Refrigerant charge	R410A	g	900	1200	1300	1600
	Liquid side diameter	mm / inch	6.35	6.35	6.35	9.52
	Gas side diameter	mm / inch	9.52	9.52	12.7	15.88
Refrigerant pipe	Max. pipe length/height	m	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	10	10
	additional charge	g/m	20	20	20	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, DB: Dry Bulb; WB: Wet Bulb
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Brezza

Wi-Fi (optional)

Like the brezza whispering at your ear

A++

AS09NS2HRA AS12NS2HRA AS18NS2HRA AS24NS2HRA
1U09BS3ERA 1U12BS3ERA 1U18FS2ERA(S) 1U24GS1ERA

Super quiet

Optimize the noise control technology, such as the compressor frequency adjustment, fan speed control and air flue design decreasing the noise level even lowest to 22dB(A) with the specialized QUIET setting. (refer to 9k)

Nano-aqua

Haier unique Aqua generator can ionize water molecules into nanometer water ion, which can be easily absorbed by skin so keeping your skin with moisture anytime.

Long distance air supplying

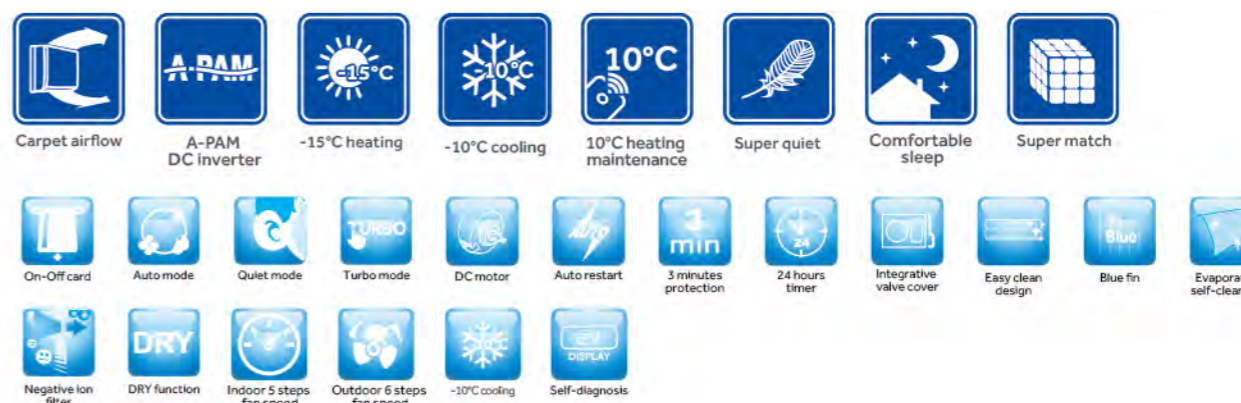
The indoor unit is improved by the optimized motor, fan and air flue so as to provide long distance airflow with 12m+ maximum. (refer to Brezza 18k)

A-PAM inverter technology

A-PAM inverter technology is the upgrade of 180° sine wave inverter control technology which adopt additional momental control to decrease the vibration in the low compressor frequency operation and also contribute to great energy saving.

Model	Indoor Outdoor	AS09NS2HRA 1U09BS3ERA	AS12NS2HRA 1U12BS3ERA	AS18NS2HRA 1U18FS2ERA(S)	AS24NS2HRA 1U24GS1ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h 9210(3070-10920)	12290(4780-13310)	17740(5120-19110)	23890(6830-24910)
	Nominal (Min.-Max.)	kW 2.7 (0.9-3.2)	3.6(1.40-3.90)	5.2(1.50-5.60)	7.0(2.0-7.3)
Energy efficiency(average climate)	SEER/EER	Energy Saving 6.4/3.80	6.1/3.60	6.2/3.40	6.1/3.21
Energy class - Cooling		A++	A++	A++	A++
Cooling Pdesign capacity(35°C)		2.7	3.6	5.2	7
Power input - Cooling	Nominal (Min.-Max.)	kW 0.71(0.35-1.30)	1.00(0.37-1.35)	1.53(0.4-2.25)	2.18(0.45-2.65)
Annual energy consumption - Cooling		kWh/a 148	207	293	401
Heating Capacity	Nominal (Min.-Max.)	Btu/h 9560(4780-10920)	12630(4780-13990)	19790(5460-20480)	25600(8530-26620)
	Heating @ -7°C	Btu/h 8530	10920	16720	17400
	Nominal (Min.-Max.)	kW 2.8(1.4-3.2)	3.7(1.40-4.1)	5.8(1.6-6.0)	7.5(2.5-7.8)
Energy efficiency	SCOP/COP	Energy Saving 4.0/4.10	4.0/3.90	4.0/3.41	4.0/3.41
Energy class - Heating		A+	A+	A+	A+
Heating Pdesign capacity (-10°C)		2.4	3.2	5.2	5.6
Power input - Heating	Nominal (Min.-Max.)	kW 0.68(0.36-1.30)	0.95(0.38-1.40)	1.70(0.41-2.35)	2.20(0.48-2.95)
Annual energy consumption - Heating		kWh/a 830	1114	1832	1979
Operating limits (cooling)	Min.-Max.	°C 21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C 10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz	1-230-50	1-230-50	1-230-50	1-230-50
Power supply (position)		outdoor	outdoor	outdoor	outdoor
40H FCL (set)	*just for reference	238	238	160	135
Indoor					
Net dimension	W/D/H	mm 855X204X280	855X204X280	997X235X322	1115X248X336
Package dimension	W/D/H	mm 954X279X355	954X279X355	1085X329X403	1205X341X416
Net/Shipping weight		kg 10/12.2	10/12.2	13/16	16/19.6
Air flow(cooling/heating)	Max.	m³/h 600	650	900	1200
Sound power level	Cooling (Hi)	dB 52	54	57	62
	Heating (Hi)	dB 53	55	58	63
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A) 38/33/26/22	39/34/27/23	44/40/35/32	47/43/37/35
	Heating (Hi/Mid/Lo/So)	dB(A) 39/33/26/23	40/34/27/24	45/40/35/33	48/44/38/36
Moisture removal		l/h 1.2	1.6	2	2.8
Outdoor					
Net dimension	W/D/H	mm 780X245X540	780X245X540	810X288X688	860X308X730
Package dimension	W/D/H	mm 920X351X620	920X351X620	949X406X745	995X420X815
Net/Shipping weight		kg 29/32	31.2/34.2	43/45.5	49/52
Air flow(cooling/heating)	Max.	m³/h 1900	1700	2200	2900
Sound power level	Hi	dB 61/62	62/63	63/64	67/68
Sound pressure level	Hi	dB(A) 51/52	52/53	53/54	55/56
Running current	Max.	A 5.8	6.4	12.4	13.2
Refrigerant charge	R410A	g 900	1200	1300	1600
Refrigerant pipe	Liquid side diameter	mm / inch 6.35	6.35	6.35	9.52
	Gas side diameter	mm / inch 9.52	9.52	12.7	15.88
	Max. pipe length/height	m 15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m 7	7	10	10
	additional charge	g/m 20	20	20	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB (DB: Dry Bulb; WB: Wet Bulb)
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Console

Carpet airflow brings comfort heating

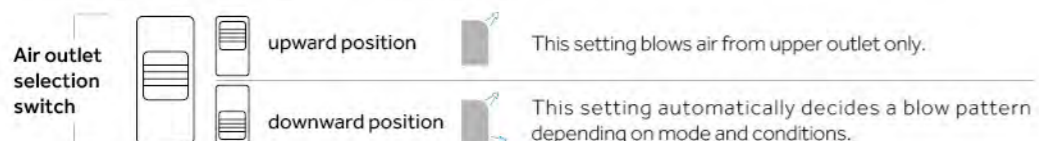
A

AF09AS1ERA AF12AS1ERA
1U09BS3ERA 1U12BS3ERA

Carpet airflow

The special designed function for console type make the possibility of airflow blowing along with the floor level,so provide the extreme comfort like warm carpet especially in the winter bed room.

Easy select the air outlet way by manual switch



Automatic carpet airflow control programm

When the air outlet selection switch is at downward position,the unit can realize carpet airflow under below conditions:

- In heating mode, when room temp. is reaching setting temp. the unit will blow both upward and downward.
- In cooling mode,when the unit just start or there is big gap between room temp. and setting temp.,the unit will blow both upward and downward.



Model	Indoor	Outdoor	AF09AS1ERA 1U09BS3ERA	AF12AS1ERA 1U12BS3ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h	8530(4430-10240)	11940(4780-13640)
	Nominal (Min.-Max.)	kW	2.5(1.3-3.0)	3.5(1.4-4.0)
Energy efficiency(average climate)	SEER/EER	Energy Saving	5.3/3.3	5.3/3.2
Energy class - Cooling			A	A
Cooling Pdesign capacity(35°C)			2.5	3.4
Power input - Cooling	Nominal (Min.-Max.)	kW	0.75(0.35-1.30)	1.10(0.37-1.55)
Annual energy consumption - Cooling		kWh/a	165	230
	Nominal (Min.-Max.)	Btu/h	9560(4780-10920)	12970(4780-13990)
Heating Capacity	Nominal (Min.-Max.)	Btu/h	7500	9900
	Heating @ -7°C	kW	2.8(1.4-3.2)	3.8(1.4-4.1)
	Nominal (Min.-Max.)	kW	2.2	2.9
	Heating @ -7°C	SCOP/COP	3.8/3.7	3.8/3.4
Energy efficiency		Energy Saving	A	A
Energy class - Heating			2.5	3.0
Heating Pdesign capacity (-10°C)			0.76(0.33-1.30)	1.11(0.38-1.89)
Power input - Heating	Nominal (Min.-Max.)	kW	1005	1360
Annual energy consumption - Heating		kWh/a	17/19.5	17.5/20
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/-10-43°C(out)	21-35°C(in)/-10-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1-230-50	1-230-50
Power supply (position)			outdoor	outdoor
40H FCL (set)	*just for reference		188	188
Indoor				
Net dimension	W/D/H	mm	720x253x640	720x253x640
Package dimension	W/D/H	mm	784x305x719	784x305x719
Net/Shipping weight		kg	17/19.5	17.5/20
Air flow(cooling/heating)	Max.	m³/h	550	650
Sound power level	Cooling (Hi)	dB	53	55
	Heating (Hi)	dB	54	56
Sound pressure level	Cooling (Hi/Mid/Lo/So)	dB(A)	41/39/34/29	42/40/37/31
	Heating (Hi/Mid/Lo/So)	dB(A)	42/40/35/30	43/41/38/32
Moisture removal		10³m³/h	1.2	1.6
Outdoor				
Net dimension	W/D/H	mm	780x245x540	780x245x540
Package dimension	W/D/H	mm	920x351x620	920x351x620
Net/Shipping weight		kg	30/33	32.5/35.5
Air flow(cooling/heating)	Max.	m³/h	1900	1900
Sound power level	Hi	dB	61/62	62/63
Sound pressure level	Hi	dB(A)	51/52	52/53
Running current	Max.	A	5.7	7.1
Refrigerant charge	R410A	g	900	1200
	Liquid side diameter	mm / inch	6.35	6.35
	Gas side diameter	mm / inch	9.52	9.52
	Max. pipe length/height	m	15/10	15/10
Refrigerant pipe	Max. pipe length without additional charge	m	7	7
	additional charge	g/m	20	20

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB, DB: Dry Bulb; WB: Wet Bulb
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>



Geos

Reliable quality, Value for money

A

- AS09GB2HRA
1U09BE5ERA
- AS12GB2HRA
1U12BE5ERA
- AS18GD2HRA
1U18EE5ERA
- AS24GF2HRA
1U24GE5ERA

Simple Display for Easy Understanding

The "Double 8" display screen is equipped to show set temperature and present the changing temperature of indoor room. The display is very easy for understanding.



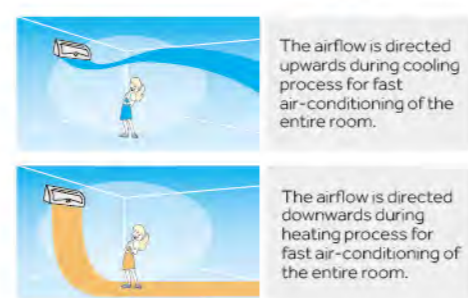
Simple structure for easy maintenance

The optimized structure design can allow us to apply the non-grille front panel which is easy to detach, assemble and wash.



Intelligent air

It adopts the twin air outlet blades technology. According to the person's location in the following diagram, the person is able to select the direction in which the air flows out of the air conditioner, to avoid the air flow directly targeting the body. This prevents people from contracting air conditioning related symptoms.



Model	Indoor	Outdoor	AS09GB2HRA 1U09BE5ERA	AS12GB2HRA 1U12BE5ERA	AS18GD2HRA 1U18EE5ERA	AS24GF2HRA 1U24GE5ERA
Cooling Capacity	Nominal (Min.-Max.)	Btu/h	8540(4440-10240)	11940(4780-13310)	17060(5120-18770)	22520(6820-23880)
	Nominal (Min.-Max.)	kW	2.50(1.30-3.0)	3.50(1.40-3.90)	5.0(1.50-5.50)	6.6(2.0-7.0)
Energy efficiency(average climate)	SEER/EER	Energy Saving	5.2/3.21	5.2/3.01	5.1/3.01	5.2/3.10
Energy class - Cooling			A	A	A	A
Cooling Pdesign capacity(35°C)			2.5	3.5	5	6.6
Power input - Cooling	Nominal (Min.-Max.)	kW	0.779(0.35-1.30)	1.163(0.37-1.35)	1.66(0.4-2.25)	2.13 (0.48-2.4)
Annual energy consumption - Cooling		kWh/a	168	235	341	443
Heating Capacity	Nominal (Min.-Max.)	Btu/h	9550(4780-10920)	12630(4780-13990)	17750(5490-20480)	24400(8530-25940)
	Heating @ -7°C	Btu/h	6480	8460	14670	16210
	Nominal (Min.-Max.)	kW	2.80(1.4-3.20)	3.7(1.40-4.1)	5.2(1.6-6.0)	7.15(2.5-7.6)
Heating @ -7°C		kW	1.9	2.45	4.3	4.75
Energy efficiency	SCOP/COP	Energy Saving	3.8/3.61	3.8/3.41	3.8/3.31	3.8/3.31
Energy class - Heating			A	A	A	A
Heating Pdesign capacity (-10°C)			2.1	2.7	4.8	5.3
Power input - Heating	Nominal (Min.-Max.)	kW	0.775(0.36-1.30)	1.085(0.38-1.4)	1.57(0.41-2.55)	2.16 (0.5-2.9)
Annual energy consumption - Heating		kWh/a	775	993	1764	1937
Operating limits (cooling)	Min.-Max.	°C	21-35°C(in)/18-43°C(out)	21-35°C(in)/18-43°C(out)	21-35°C(in)/18-43°C(out)	21-35°C(in)/18-43°C(out)
Operating limits (heating)	Min.-Max.	°C	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)	10-27°C(in)/-15-24°C(out)
Power supply	Ph/V/Hz		1-230-50	1-230-50	1-230-50	1-230-50
Power supply (position)			outdoor	outdoor	outdoor	outdoor
40HFCL (set)	*just for reference		238	238	204	140
Indoor						
Net dimension	W/D/H	mm	795*187*265	795*187*265	938*187*265	1046*234*299
Package dimension	W/D/H	mm	871*304*360	871*304*360	1016*304*360	1126*344*388
Net/Shipping weight		kg	8.2/10	8.2/10	9.6/12.2	13.2/16.1
Air flow(cooling/heating)	Max.	m³/h	500	550	700	1100
Sound power level	Cooling (Hi)	dB	53	55	58	64
	Heating (Hi)	dB	54	56	59	65
Sound pressure level	Cooling (Hi/Mid/L0/So)	dB(A)	40/38/33/28	42/38/35/32	45/42/38/35	47/42/39/36
	Heating (Hi/Mid/L0/So)	dB(A)	41/38/33/29	43/38/35/33	46/42/38/36	48/42/39/37
Moisture removal		l0³m³/h	1.2	1.6	2	2.8
Outdoor						
Net dimension	W/D/H	mm	780*245*540	780*245*540	780*245*540	860*308*730
Package dimension	W/D/H	mm	920*351*620	920*351*620	920*351*720	995*420*815
Net/Shipping weight		kg	29.6/32.6	32/35	35/38.5	50/54
Air flow(cooling/heating)	Max.	m³/h	1900	1700	2000	2900
Sound power level	Hi	dB	62/63	62/63	64/65	68/69
Sound pressure level	Hi	dB(A)	52/53	52/53	54/55	57/58
Running current	Max.	A	5.8	6.4	11.6	13
Refrigerant charge	R410A	g	900	1200	1350	1600
	Liquid side diameter	mm / inch	6.35	6.35	6.35	9.52
Refrigerant pipe	Gas side diameter	mm / inch	9.52	9.52	12.7	15.88
	Max. pipe length/height	m	15/10	15/10	25/15	25/15
	Max. pipe length without additional charge	m	7	7	10	10
	additional charge	g/m	20	20	20	50

Rating Conditions: Cooling Indoor 27°C DB / 19°C WB, Cooling Outdoor 35°C DB / 24°C WB, Heating Indoor 20°C DB, Heating Outdoor 7°C DB / 6°C WB (DB: Dry Bulb; WB: Wet Bulb)
For detailed information about EPR, please visit our page <http://www.haier.com/ecodesign>

